

FIG. 1

00780574.0000

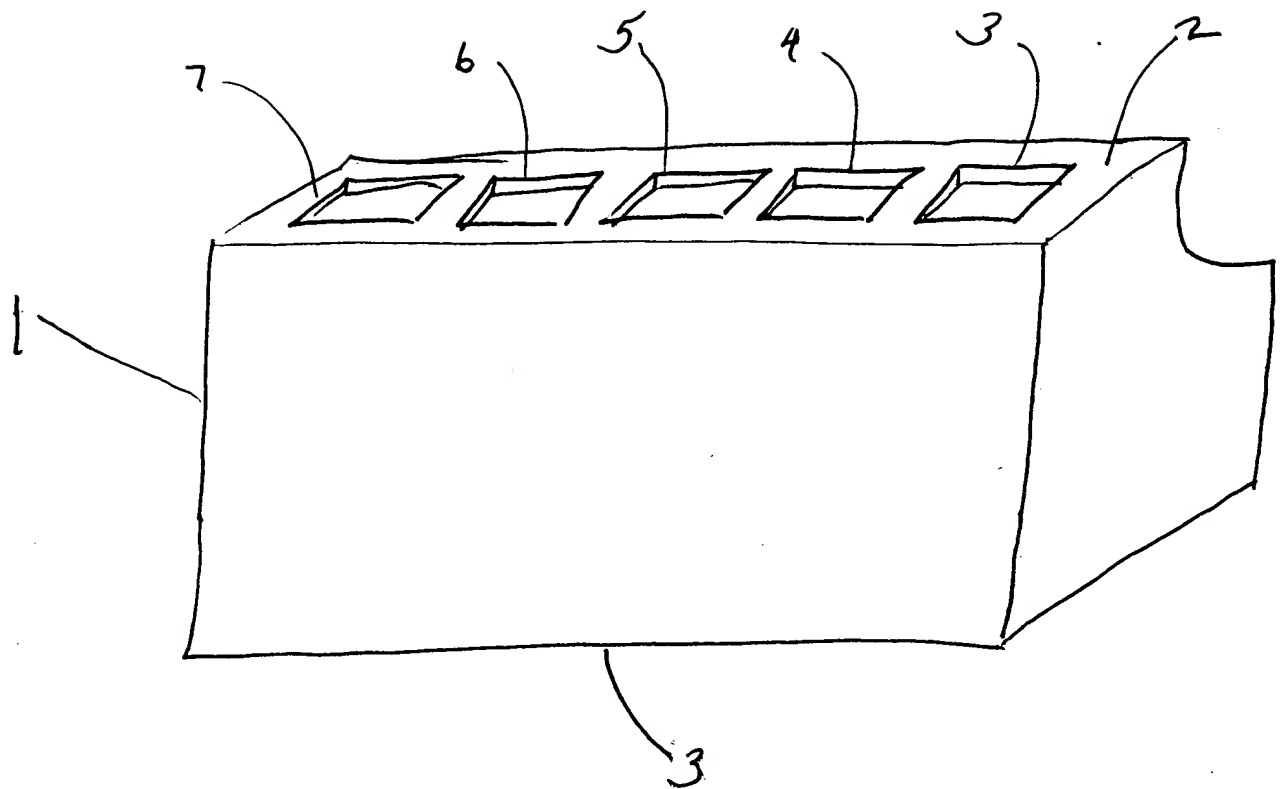
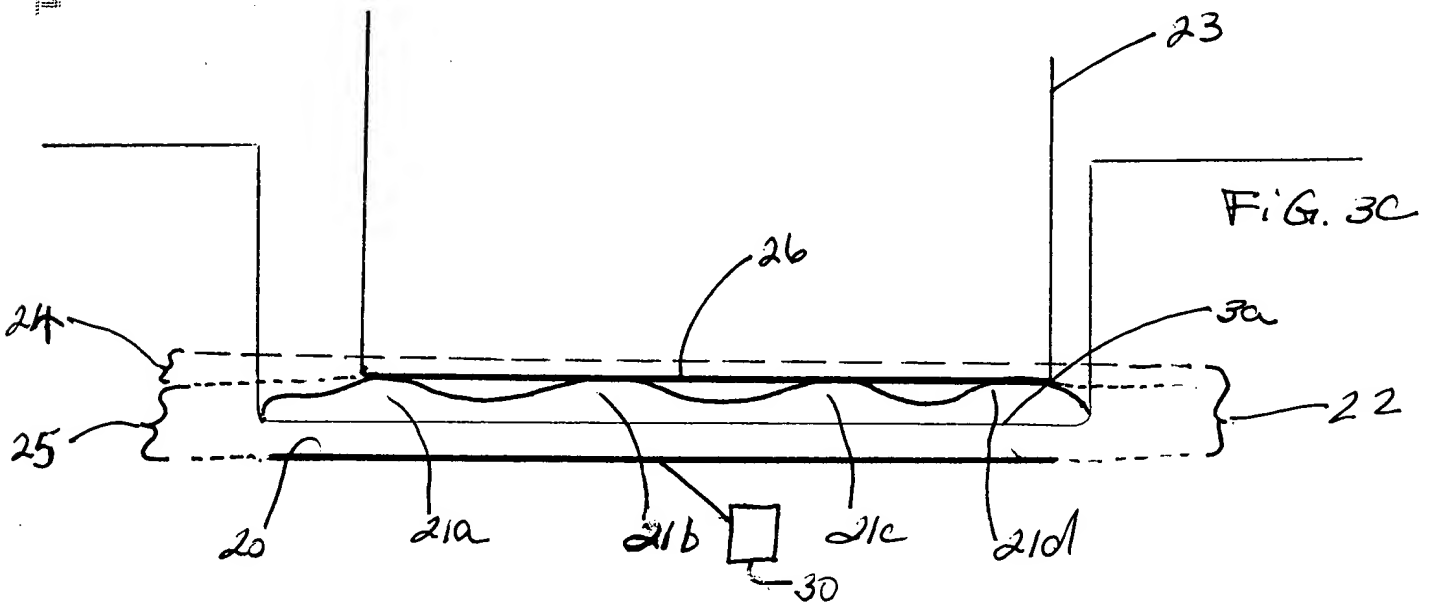
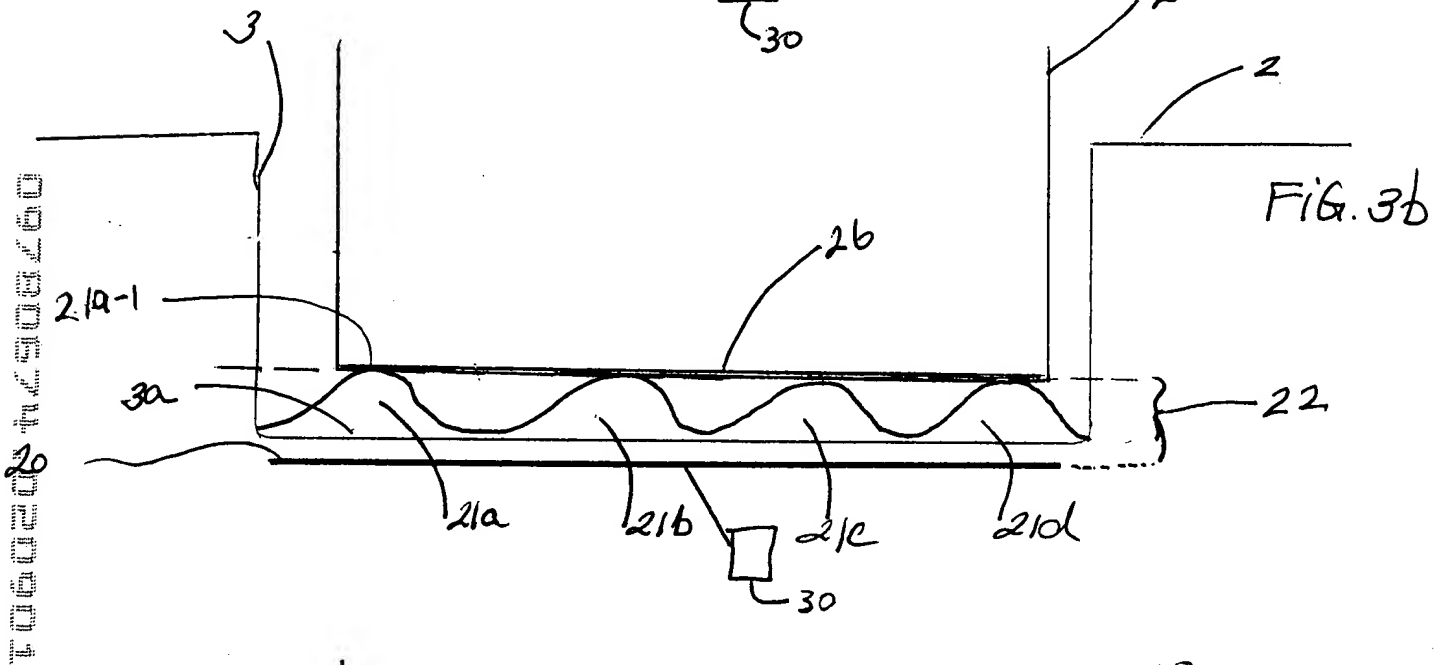
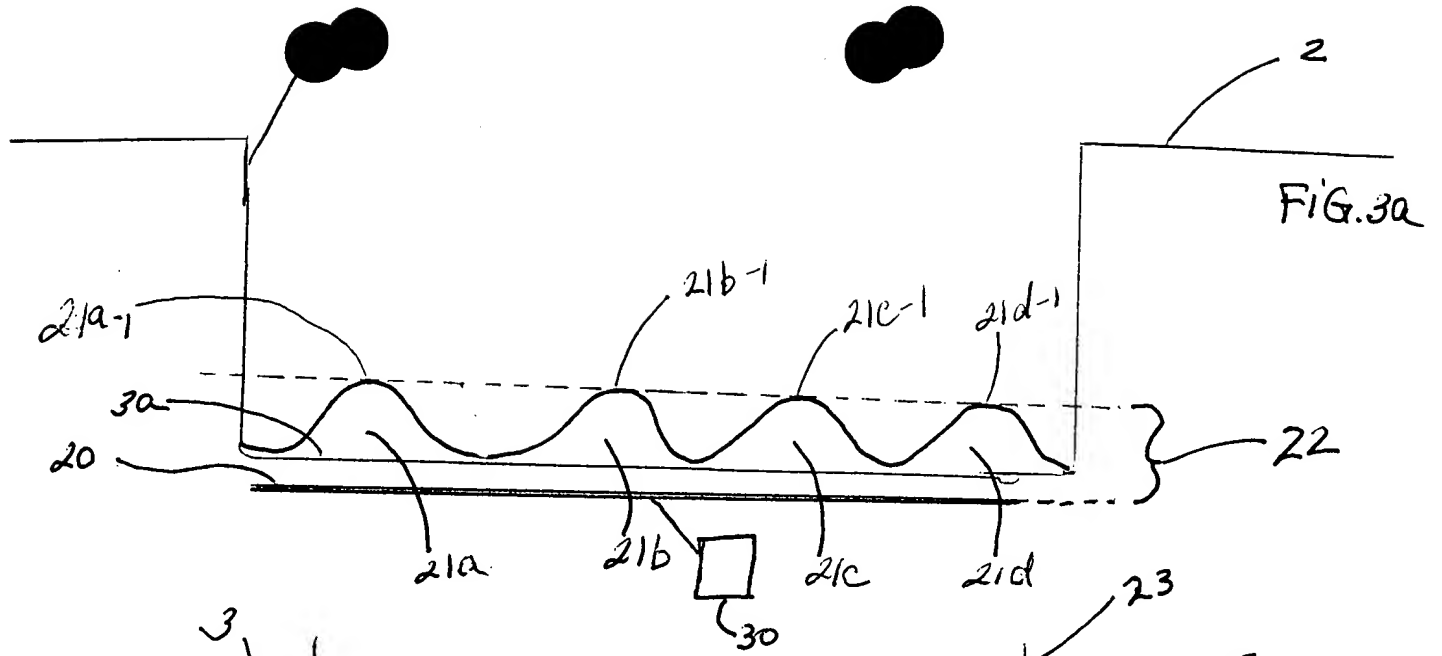


FIG. 2



This perspective view shows a three-dimensional array of blocks (3) arranged to spell out the word "CAT". A hand (40) is shown pressing down on the block "C" (41). The blocks are labeled 42, 43, 44, 45, and 46. Below the blocks is a row of five buttons (8, 9, 12, 10, 11) labeled "Song", "Tap", "Play", "Spelling", and "Bottle". The buttons are labeled 8a, 9a, 12a, 10a, and 11a. The entire assembly is mounted on a base (3b) with a top surface (7b). A vertical line (7) is also indicated.

1

FIG. 4b

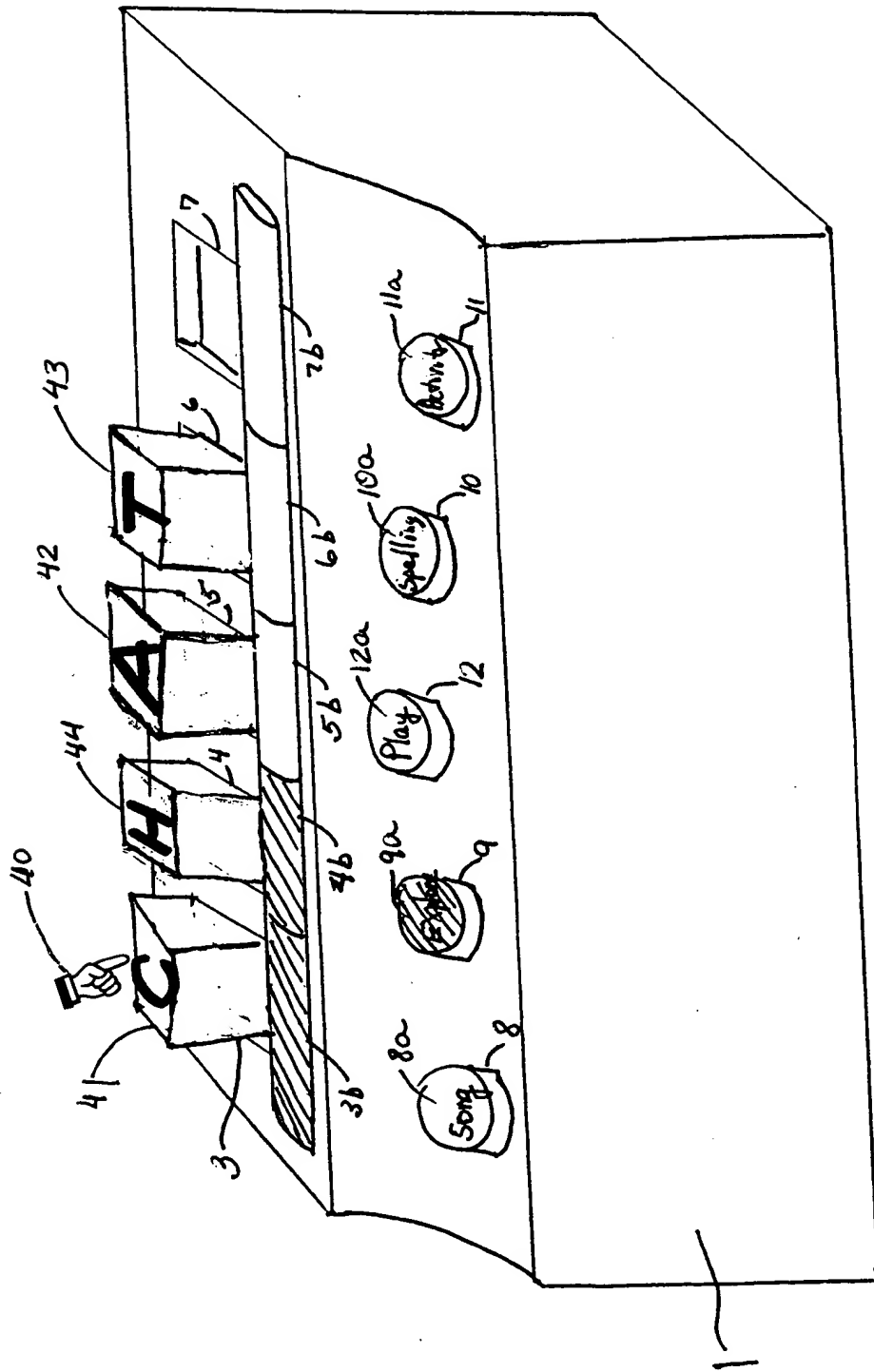


FIG. 4b

FIG. 4C

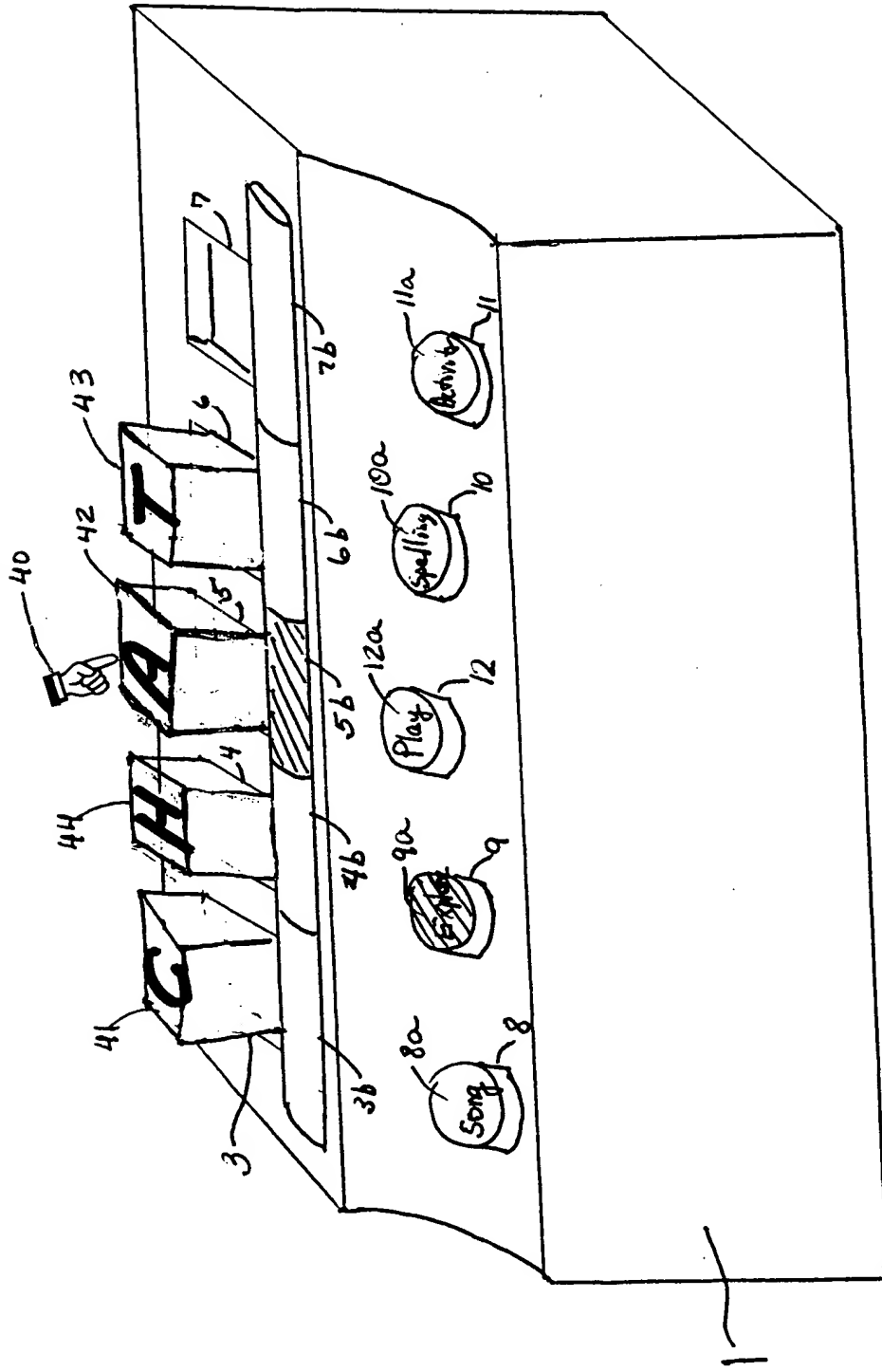
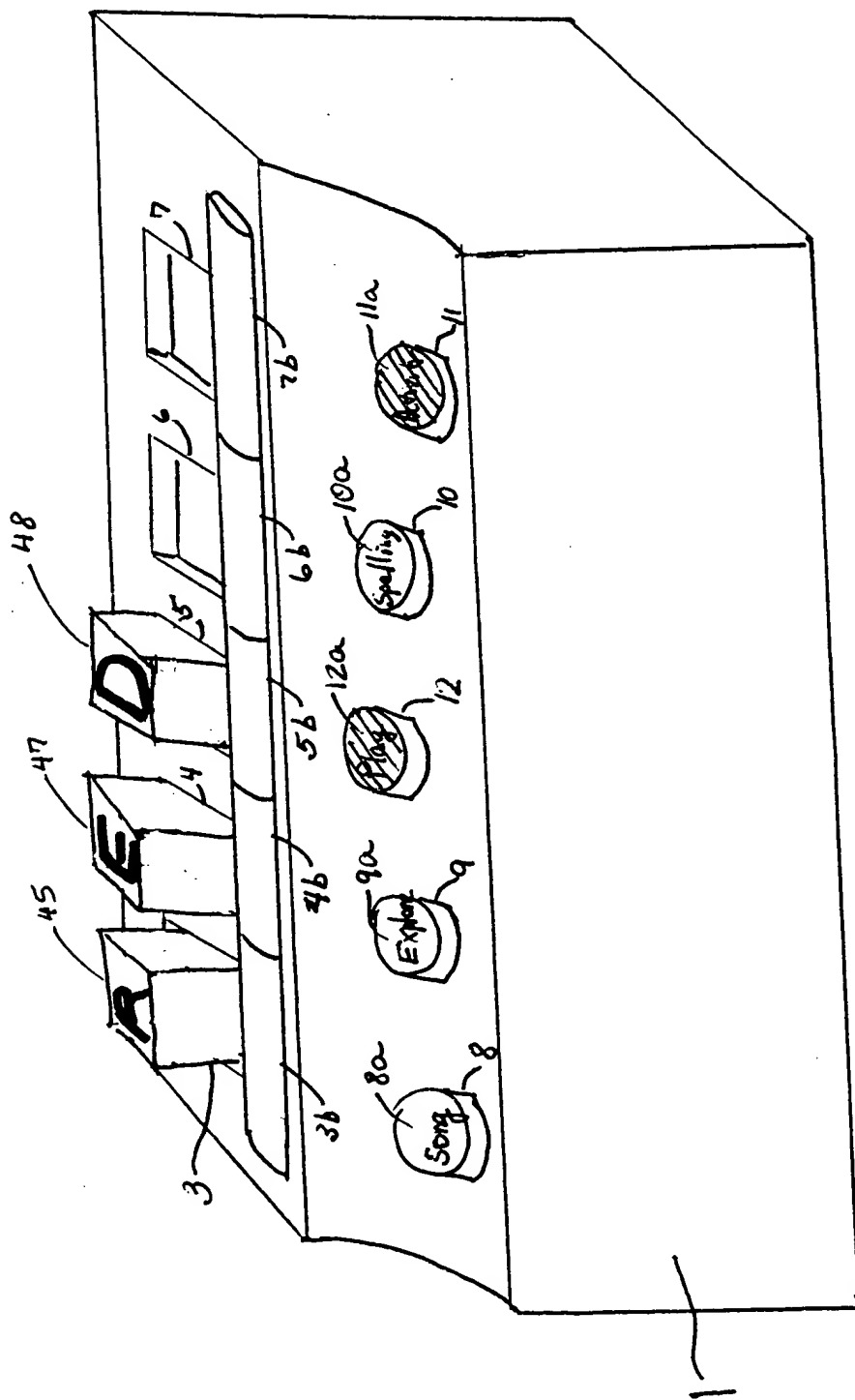


FIG. 4C

Fig. 4d

Fig. 4e

FIG. 5



48

The 44 Sounds of English

0. silence	
Consonant Sounds	Vowel Sounds
1. /b/ (bat)	23. /th/ (the)
2. /d/ (dog)	24. /hw/ (wheel)
3. /f/ (fan)	25. /ng/ (ring)
4. /g/ (gate)	26. /ā/ (cake)
5. /h/ (hat)	27. /ē/ (feet)
6. /j/ (jump)	28. /ī/ (bike)
7. /k/ (kite)	29. /ō/ (boat)
8. /l/ (leaf)	30. /yōō/ (cube)
9. /m/ (mop)	31. /a/ (cat)
10. /n/ (nest)	32. /e/ (bed)
11. /p/ (pig)	33. /i/ (fish)
12. /r/ (rock)	34. /o/ (lock)
13. /s/ (sun)	35. /u/ (duck)
14. /t/ (top)	36. /ə/ (alarm)
15. /v/ (vase)	37. /ā/ (chair)
16. /w/ (wagon)	38. /ū/ (bird)
17. /y/ (yo-yo)	39. /ā/ (car)
18. /z/ (zebra)	40. /ō/ (ball)
19. /ch/ (cheese)	41. /oi/ (boy)
20. /sh/ (shark)	42. /ou/ (house)
21. /zh/ (treasure)	43. /ōō/ (moon)
22. /th/ (thumb)	44. /ōō/ (book)

45. /q/ 46. /o/ (won) 47. /x/ 48. /or/ (store)

FIG. 6

FIG. 7a

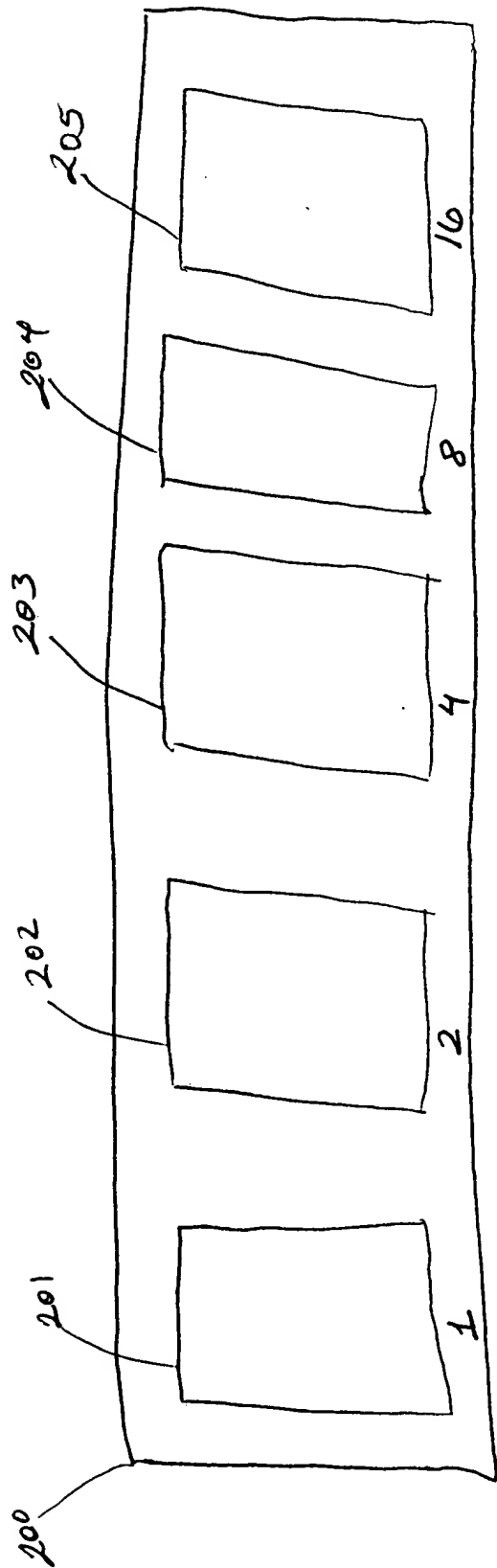


Fig. 7a

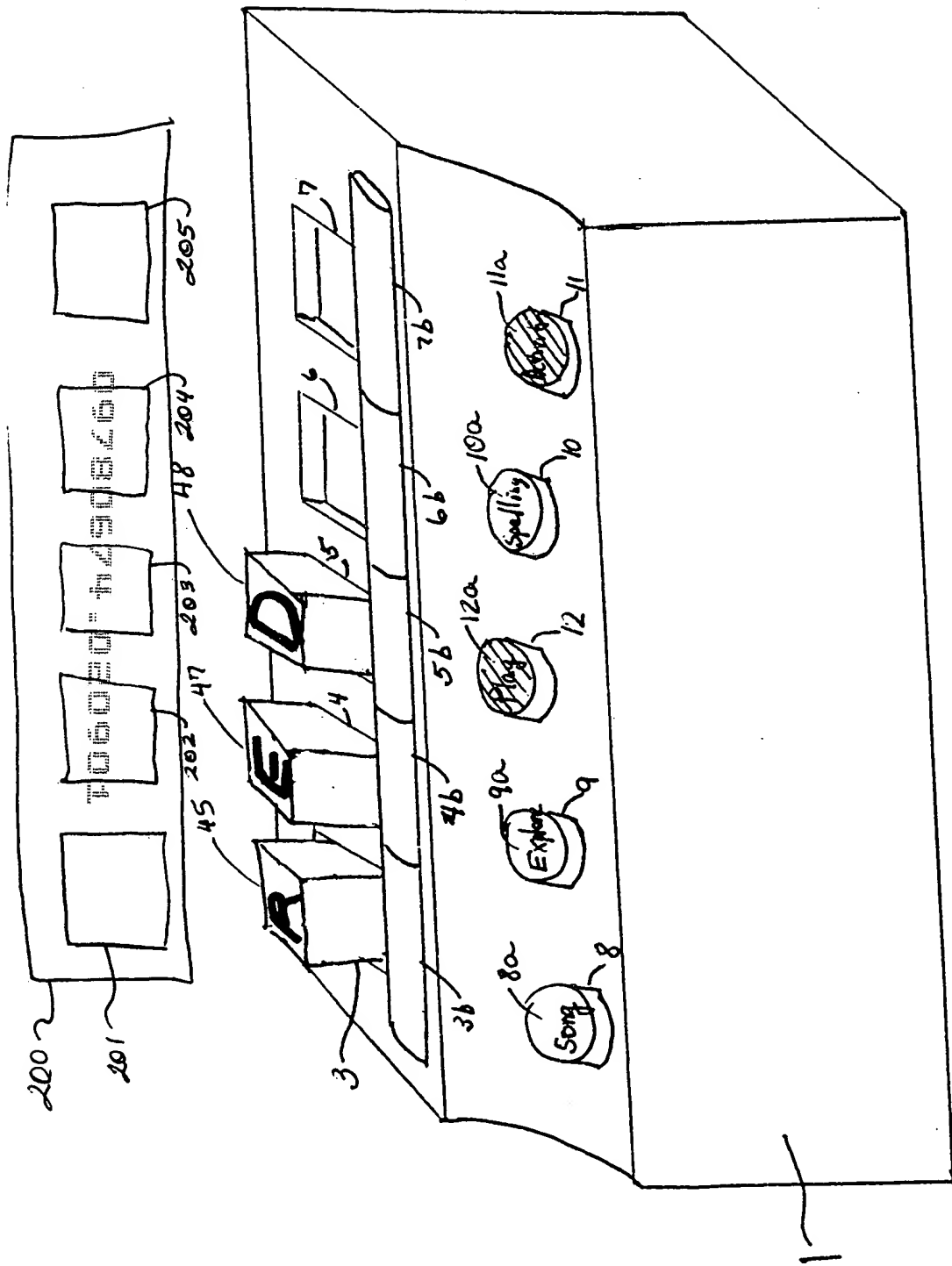


FIG. 7b

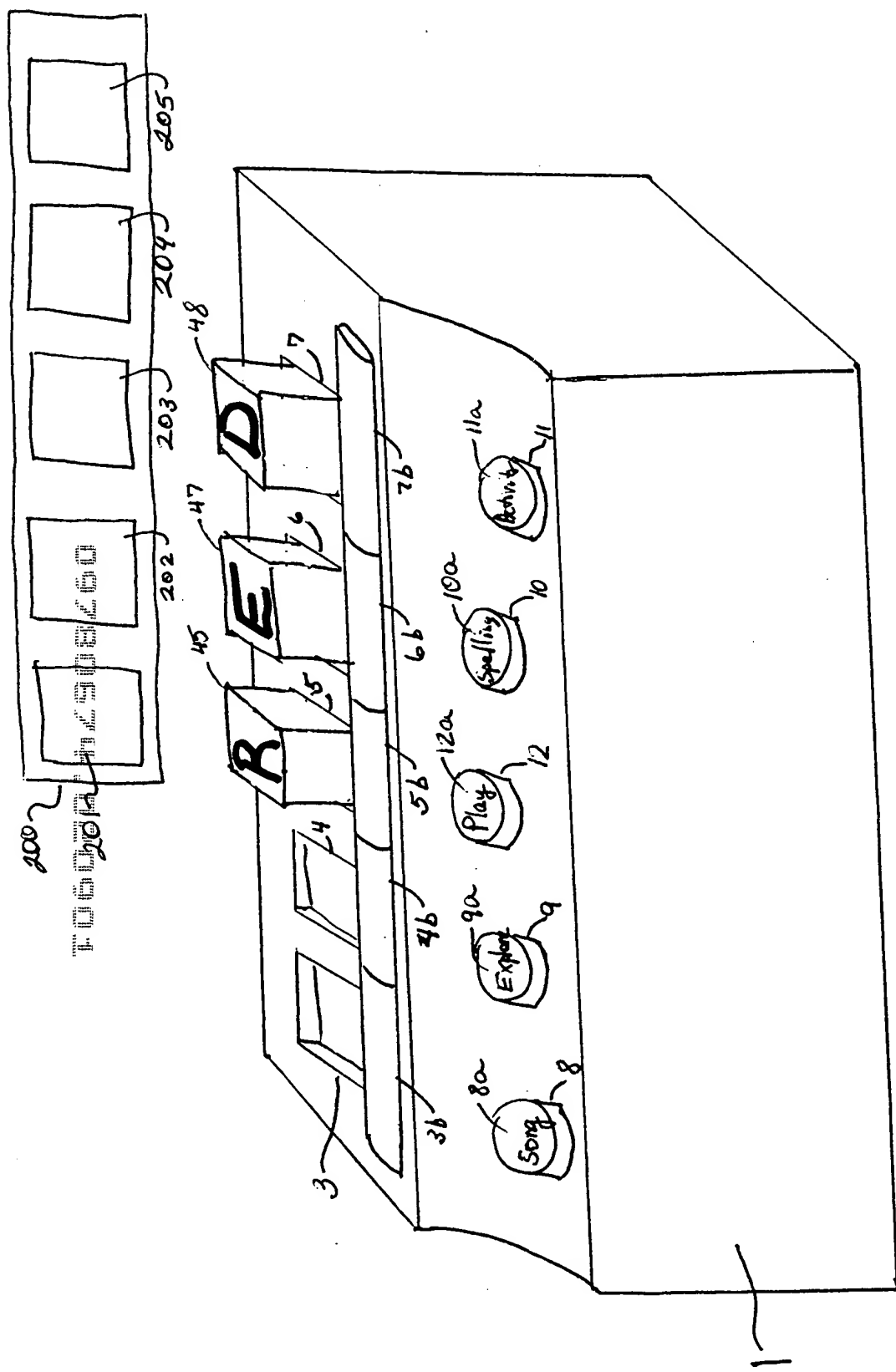


Fig. 7c

1. /worddict 2048 dict dup begin
2. /a ["a" ["26"] ["01"] true] def
3. /i ["i" ["28"] ["01"] true] def
4. /am ["am" ["31" "9"] ["01" "02"] true] def
5. /an ["an" ["31" "10"] ["01" "02"] true] def
6. /as ["as" ["31" "18"] ["01" "02"] true] def
7. /at ["at" ["31" "14"] ["01" "02"] true] def
8. /be ["be" ["1" "27"] ["01" "02"] true] def
9. /by ["by" ["1" "28"] ["01" "02"] true] def
10. /do ["do" ["2" "43"] ["01" "02"] true] def
11. /go ["go" ["4" "29"] ["01" "02"] true] def
12. /he ["he" ["5" "27"] ["01" "02"] true] def
13. /if ["if" ["33" "3"] ["01" "02"] true] def
14. /in ["in" ["33" "10"] ["01" "02"] true] def
15. /is ["is" ["33" "18"] ["01" "02"] true] def
16. /it ["it" ["33" "14"] ["01" "02"] true] def
17. /me ["me" ["9" "27"] ["01" "02"] true] def
18. /my ["my" ["9" "28"] ["01" "02"] true] def
19. /no ["know" ["10" "29"] ["01" "02"] true] def
20. /of ["of" ["36" "15"] ["01" "02"] true] def
21. /on ["on" ["34" "10"] ["01" "02"] true] def
22. /or ["or" ["29" "12"] ["01" "02"] true] def
23. /ox ["ox" ["34" "47"] ["01" "02"] true] def
24. /so ["sew" ["13" "29"] ["01" "02"] false] def
25. /to ["to" ["14" "43"] ["01" "02"] true] def
26. /up ["up" ["35" "11"] ["01" "02"] true] def
27. /us ["us" ["35" "13"] ["01" "02"] true] def
28. /we ["we" ["16" "27"] ["01" "02"] true] def
29. /ace ["ace" ["26" "13" "0"] ["05" "02" "05"] true] def
30. /act ["act" ["31" "7" "14"] ["01" "02" "04"] true] def
31. /age ["age" ["26" "6" "0"] ["05" "02" "05"] true] def
32. /ago ["ago" ["36" "4" "29"] ["01" "02" "04"] true] def
33. /air ["air" ["37" "37" "12"] ["03" "03" "04"] true] def
34. /all ["all" ["40" "8" "8"] ["01" "02" "04"] true] def
35. /and ["and" ["31" "10" "2"] ["01" "02" "04"] true] def
36. /ant ["ant" ["31" "10" "14"] ["01" "02" "04"] true] def
37. /any ["any" ["32" "10" "27"] ["01" "02" "04"] true] def
38. /ape ["ape" ["26" "11" "0"] ["05" "02" "05"] true] def
39. /are ["are" ["39" "12" "0"] ["03" "03" "04"] true] def
40. /arm ["arm" ["39" "12" "9"] ["03" "03" "04"] true] def
41. /art ["art" ["39" "12" "14"] ["03" "03" "04"] true] def
42. /ask ["ask" ["31" "13" "7"] ["01" "02" "04"] true] def
43. /ate ["ate" ["26" "14" "0"] ["05" "02" "05"] true] def
44. /bad ["bad" ["1" "31" "2"] ["01" "02" "04"] true] def
45. /bag ["bag" ["1" "31" "4"] ["01" "02" "04"] true] def
46. /bar ["bar" ["1" "39" "12"] ["01" "02" "04"] true] def

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47. /bat [ "bat" [ "1" "31" "14" ] [ "01" "02" "04" ] true ] def
48. /bed [ "bed" [ "1" "32" "2" ] [ "01" "02" "04" ] true ] def
49. /bee [ "bee" [ "1" "27" "27" ] [ "01" "06" "06" ] true ] def
50. /bet [ "bet" [ "1" "32" "14" ] [ "01" "02" "04" ] true ] def
51. /big [ "big" [ "1" "33" "4" ] [ "01" "02" "04" ] true ] def
52. /bit [ "bit" [ "1" "33" "14" ] [ "01" "02" "04" ] true ] def
53. /bow [ "bow" [ "1" "29" "29" ] [ "01" "06" "06" ] true ] def
54. /box [ "box" [ "1" "34" "47" ] [ "01" "02" "04" ] true ] def
55. /boy [ "boy" [ "1" "41" "41" ] [ "01" "06" "06" ] true ] def
56. /bud [ "bud" [ "1" "35" "2" ] [ "01" "02" "04" ] true ] def
57. /bug [ "bug" [ "1" "35" "4" ] [ "01" "02" "04" ] true ] def
58. /bun [ "bun" [ "1" "35" "10" ] [ "01" "02" "04" ] true ] def
59. /bus [ "bus" [ "1" "35" "13" ] [ "01" "02" "04" ] true ] def
60. /but [ "but" [ "1" "35" "14" ] [ "01" "02" "04" ] true ] def
61. /buy [ "by" [ "1" "28" "28" ] [ "01" "06" "06" ] true ] def
62. /bye [ "by" [ "1" "28" "0" ] [ "01" "06" "06" ] true ] def
63. /cab [ "cab" [ "7" "31" "1" ] [ "01" "02" "04" ] true ] def
64. /can [ "can" [ "7" "31" "10" ] [ "01" "02" "04" ] true ] def
65. /cap [ "cap" [ "7" "31" "11" ] [ "01" "02" "04" ] true ] def
66. /car [ "car" [ "7" "39" "12" ] [ "01" "02" "04" ] true ] def
67. /cat [ "cat" [ "7" "31" "14" ] [ "01" "02" "04" ] true ] def
68. /cop [ "cop" [ "7" "34" "11" ] [ "01" "02" "04" ] true ] def
69. /cow [ "cow" [ "7" "42" "42" ] [ "01" "06" "06" ] true ] def
70. /cry [ "cry" [ "7" "12" "28" ] [ "01" "02" "04" ] true ] def
71. /cup [ "cup" [ "7" "36" "11" ] [ "01" "02" "04" ] true ] def
72. /cut [ "cut" [ "7" "36" "14" ] [ "01" "02" "04" ] true ] def
73. /dad [ "dad" [ "2" "31" "2" ] [ "01" "02" "04" ] true ] def
74. /day [ "day" [ "2" "26" "26" ] [ "01" "06" "06" ] true ] def
75. /den [ "den" [ "2" "32" "10" ] [ "01" "02" "04" ] true ] def
76. /did [ "did" [ "2" "33" "2" ] [ "01" "02" "04" ] true ] def
77. /dig [ "dig" [ "2" "33" "4" ] [ "01" "02" "04" ] true ] def
78. /dog [ "dog" [ "2" "40" "4" ] [ "01" "02" "04" ] true ] def
79. /dot [ "dot" [ "2" "34" "14" ] [ "01" "02" "04" ] true ] def
80. /dry [ "dry" [ "2" "12" "28" ] [ "01" "02" "04" ] true ] def
81. /ear [ "ear" [ "27" "27" "12" ] [ "03" "03" "04" ] true ] def
82. /eat [ "eat" [ "27" "27" "14" ] [ "03" "03" "04" ] true ] def
83. /egg [ "egg" [ "32" "4" "4" ] [ "01" "06" "06" ] true ] def
84. /end [ "end" [ "32" "10" "2" ] [ "01" "02" "04" ] true ] def
85. /eye [ "eye" [ "28" "28" "0" ] [ "04" "05" "07" ] true ] def
86. /fan [ "fan" [ "3" "31" "10" ] [ "01" "02" "04" ] true ] def
87. /far [ "far" [ "3" "39" "12" ] [ "01" "02" "04" ] true ] def
88. /fat [ "fat" [ "3" "31" "14" ] [ "01" "02" "04" ] true ] def
89. /fed [ "fed" [ "3" "32" "2" ] [ "01" "02" "04" ] true ] def
90. /few [ "few" [ "3" "30" "30" ] [ "01" "06" "06" ] true ] def
91. /fit [ "fit" [ "3" "33" "14" ] [ "01" "02" "04" ] true ] def
92. /fix [ "fix" [ "3" "33" "47" ] [ "01" "02" "04" ] true ] def
93. /fly [ "fly" [ "3" "8" "28" ] [ "01" "02" "04" ] true ] def
94. /for [ "for" [ "3" "29" "12" ] [ "01" "02" "04" ] true ] def
95. /fox [ "fox" [ "3" "34" "47" ] [ "01" "02" "04" ] true ] def
96. /fry [ "fry" [ "3" "12" "28" ] [ "01" "02" "04" ] true ] def
97. /fun [ "fun" [ "3" "36" "10" ] [ "01" "02" "04" ] true ] def
98. /fur [ "fur" [ "3" "38" "12" ] [ "01" "02" "04" ] true ] def
99. /gap [ "gap" [ "4" "31" "11" ] [ "01" "02" "04" ] true ] def
100./get [ "get" [ "4" "32" "14" ] [ "01" "02" "04" ] true ] def

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101./gnu ["gnu" ["0" "10" "43"] ["03" "02" "04"] true] def
 102./got ["got" ["4" "34" "14"] ["01" "02" "04"] true] def
 103./gum ["gum" ["4" "35" "9"] ["01" "02" "04"] true] def
 104./guy ["guy" ["4" "28" "28"] ["01" "06" "06"] true] def
 105./had ["had" ["5" "31" "2"] ["01" "02" "04"] true] def
 106./ham ["ham" ["5" "31" "9"] ["01" "02" "04"] true] def
 107./has ["has" ["5" "31" "18"] ["01" "02" "04"] true] def
 108./hat ["hat" ["5" "31" "14"] ["01" "02" "04"] true] def
 109./hay ["hay" ["5" "26" "26"] ["01" "06" "06"] true] def
 110./hen ["hen" ["5" "32" "10"] ["01" "02" "04"] true] def
 111./her ["her" ["5" "38" "12"] ["01" "02" "04"] true] def
 112./hey ["hay" ["5" "26" "26"] ["01" "06" "06"] false] def
 113./hid ["hid" ["5" "33" "2"] ["01" "02" "04"] true] def
 114./him ["him" ["5" "33" "9"] ["01" "02" "04"] true] def
 115./hip ["hip" ["5" "33" "11"] ["01" "02" "04"] true] def
 116./his ["his" ["5" "33" "18"] ["01" "02" "04"] true] def
 117./hit ["hit" ["5" "33" "14"] ["01" "02" "04"] true] def
 118./hog ["hog" ["5" "34" "4"] ["01" "02" "04"] true] def
 119./hop ["hop" ["5" "34" "11"] ["01" "02" "04"] true] def
 120./hot ["hot" ["5" "34" "14"] ["01" "02" "04"] true] def
 121./how ["how" ["5" "42" "42"] ["01" "06" "06"] true] def
 122./hug ["hug" ["5" "35" "4"] ["01" "02" "04"] true] def
 123./hum ["hum" ["5" "35" "9"] ["01" "02" "04"] true] def
 124./hut ["hut" ["5" "35" "14"] ["01" "02" "04"] true] def
 125./ice ["ice" ["28" "13" "0"] ["05" "02" "05"] true] def
 126./ink ["ink" ["33" "10" "7"] ["01" "02" "04"] true] def
 127./jam ["jam" ["6" "31" "9"] ["01" "02" "04"] true] def
 128./jar ["jar" ["6" "39" "12"] ["01" "06" "04"] true] def
 129./jaw ["jaw" ["6" "40" "40"] ["01" "05" "04"] true] def
 130./jet ["jet" ["6" "32" "14"] ["01" "02" "04"] true] def
 131./job ["job" ["6" "40" "1"] ["01" "02" "04"] true] def
 132./jog ["jog" ["6" "40" "4"] ["01" "02" "04"] true] def
 133./joy ["joy" ["6" "41" "41"] ["01" "06" "06"] true] def
 134./jug ["jug" ["6" "35" "4"] ["01" "02" "04"] true] def
 135./key ["key" ["7" "27" "27"] ["01" "06" "06"] true] def
 136./kid ["kid" ["7" "33" "2"] ["01" "02" "04"] true] def
 137./kit ["kit" ["7" "33" "14"] ["01" "02" "04"] true] def
 138./lab ["lab" ["8" "31" "1"] ["01" "02" "04"] true] def
 139./lay ["lay" ["8" "26" "26"] ["01" "06" "06"] true] def
 140./leg ["leg" ["8" "32" "4"] ["01" "02" "04"] true] def
 141./let ["let" ["8" "32" "14"] ["01" "02" "04"] true] def
 142./lid ["lid" ["8" "33" "2"] ["01" "02" "04"] true] def
 143./lie ["lie" ["8" "28" "0"] ["01" "06" "06"] true] def
 144./lip ["lip" ["8" "33" "11"] ["01" "02" "04"] true] def
 145./log ["log" ["8" "34" "4"] ["01" "02" "04"] true] def
 146./lot ["lot" ["8" "34" "14"] ["01" "02" "04"] true] def
 147./mad ["mad" ["9" "31" "2"] ["01" "02" "04"] true] def
 148./man ["man" ["9" "31" "10"] ["01" "02" "04"] true] def
 149./map ["map" ["9" "31" "11"] ["01" "02" "04"] true] def
 150./mat ["mat" ["9" "31" "14"] ["01" "02" "04"] true] def
 151./may ["may" ["9" "26" "26"] ["01" "06" "06"] true] def
 152./men ["men" ["9" "32" "10"] ["01" "02" "04"] true] def
 153./met ["met" ["9" "32" "14"] ["01" "02" "04"] true] def
 154./mix ["mix" ["9" "33" "47"] ["01" "02" "04"] true] def


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155./mom [ "mom" [ "9" "34" "9" ] [ "01" "02" "04" ] true ] def
156./moo [ "moo" [ "9" "43" "43" ] [ "01" "06" "06" ] true ] def
157./mop [ "mop" [ "9" "34" "11" ] [ "01" "02" "04" ] true ] def
158./mud [ "mud" [ "9" "35" "2" ] [ "01" "02" "04" ] true ] def
159./mug [ "mug" [ "9" "35" "4" ] [ "01" "02" "04" ] true ] def
160./nap [ "nap" [ "10" "31" "11" ] [ "01" "02" "04" ] true ] def
161./net [ "net" [ "10" "32" "14" ] [ "01" "02" "04" ] true ] def
162./new [ "new" [ "10" "43" "43" ] [ "01" "06" "06" ] true ] def
163./nod [ "nod" [ "10" "34" "2" ] [ "01" "02" "04" ] true ] def
164./not [ "not" [ "10" "34" "14" ] [ "01" "02" "04" ] true ] def
165./now [ "now" [ "10" "42" "42" ] [ "01" "06" "06" ] true ] def
166./nut [ "nut" [ "10" "35" "14" ] [ "01" "02" "04" ] true ] def
167./off [ "off" [ "34" "3" "3" ] [ "01" "06" "06" ] true ] def
168./oil [ "oil" [ "41" "41" "8" ] [ "03" "03" "04" ] true ] def
169./old [ "old" [ "29" "8" "2" ] [ "01" "02" "04" ] true ] def
170./one [ "one" [ "16" "10" "0" ] [ "01" "02" "04" ] true ] def
171./our [ "our" [ "42" "42" "12" ] [ "03" "03" "04" ] true ] def
172./out [ "out" [ "42" "42" "14" ] [ "03" "03" "04" ] true ] def
173./owl [ "owl" [ "42" "42" "8" ] [ "01" "02" "04" ] true ] def
174./own [ "own" [ "29" "29" "10" ] [ "01" "02" "04" ] true ] def
175./pad [ "pad" [ "11" "31" "2" ] [ "01" "02" "04" ] true ] def
176./pal [ "pal" [ "11" "31" "8" ] [ "01" "02" "04" ] true ] def
177./pan [ "pan" [ "11" "31" "10" ] [ "01" "02" "04" ] true ] def
178./pat [ "pat" [ "11" "31" "14" ] [ "01" "02" "04" ] true ] def
179./pea [ "pea" [ "11" "27" "27" ] [ "01" "06" "06" ] true ] def
180./pen [ "pen" [ "11" "32" "10" ] [ "01" "02" "04" ] true ] def
181./pet [ "pet" [ "11" "32" "14" ] [ "01" "02" "04" ] true ] def
182./pie [ "pie" [ "11" "28" "28" ] [ "01" "06" "06" ] true ] def
183./pig [ "pig" [ "11" "33" "4" ] [ "01" "02" "04" ] true ] def
184./pin [ "pin" [ "11" "33" "10" ] [ "01" "02" "04" ] true ] def
185./pit [ "pit" [ "11" "33" "14" ] [ "01" "02" "04" ] true ] def
186./pop [ "pop" [ "11" "34" "11" ] [ "01" "02" "04" ] true ] def
187./pot [ "pot" [ "11" "34" "14" ] [ "01" "02" "04" ] true ] def
188./put [ "put" [ "11" "36" "14" ] [ "01" "02" "04" ] true ] def
189./rag [ "rag" [ "12" "31" "8" ] [ "01" "02" "04" ] true ] def
190./ram [ "ram" [ "12" "31" "9" ] [ "01" "02" "04" ] true ] def
191./ran [ "ran" [ "12" "31" "10" ] [ "01" "02" "04" ] true ] def
192./rap [ "rap" [ "12" "31" "11" ] [ "01" "02" "04" ] true ] def
193./rat [ "rat" [ "12" "31" "14" ] [ "01" "02" "04" ] true ] def
194./raw [ "raw" [ "12" "34" "34" ] [ "01" "06" "06" ] true ] def
195./ray [ "ray" [ "12" "26" "26" ] [ "01" "06" "06" ] true ] def
196./red [ "red" [ "12" "31" "2" ] [ "01" "02" "04" ] true ] def
197./rib [ "rib" [ "12" "33" "1" ] [ "01" "02" "04" ] true ] def
198./rid [ "rid" [ "12" "33" "2" ] [ "01" "02" "04" ] true ] def
199./rip [ "rip" [ "12" "33" "11" ] [ "01" "02" "04" ] true ] def
200./rod [ "rod" [ "12" "34" "2" ] [ "01" "02" "04" ] true ] def
201./rot [ "rot" [ "12" "34" "14" ] [ "01" "02" "04" ] true ] def
202./row [ "row" [ "12" "29" "29" ] [ "01" "06" "06" ] true ] def
203./rub [ "rub" [ "12" "35" "1" ] [ "01" "02" "04" ] true ] def
204./rug [ "rug" [ "12" "35" "4" ] [ "01" "02" "04" ] true ] def
205./run [ "run" [ "12" "35" "10" ] [ "01" "02" "04" ] true ] def
206./sad [ "sad" [ "13" "31" "2" ] [ "01" "02" "04" ] true ] def
207./sat [ "sat" [ "13" "31" "14" ] [ "01" "02" "04" ] true ] def
208./saw [ "saw" [ "13" "40" "40" ] [ "01" "06" "06" ] true ] def

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FIG. 8d

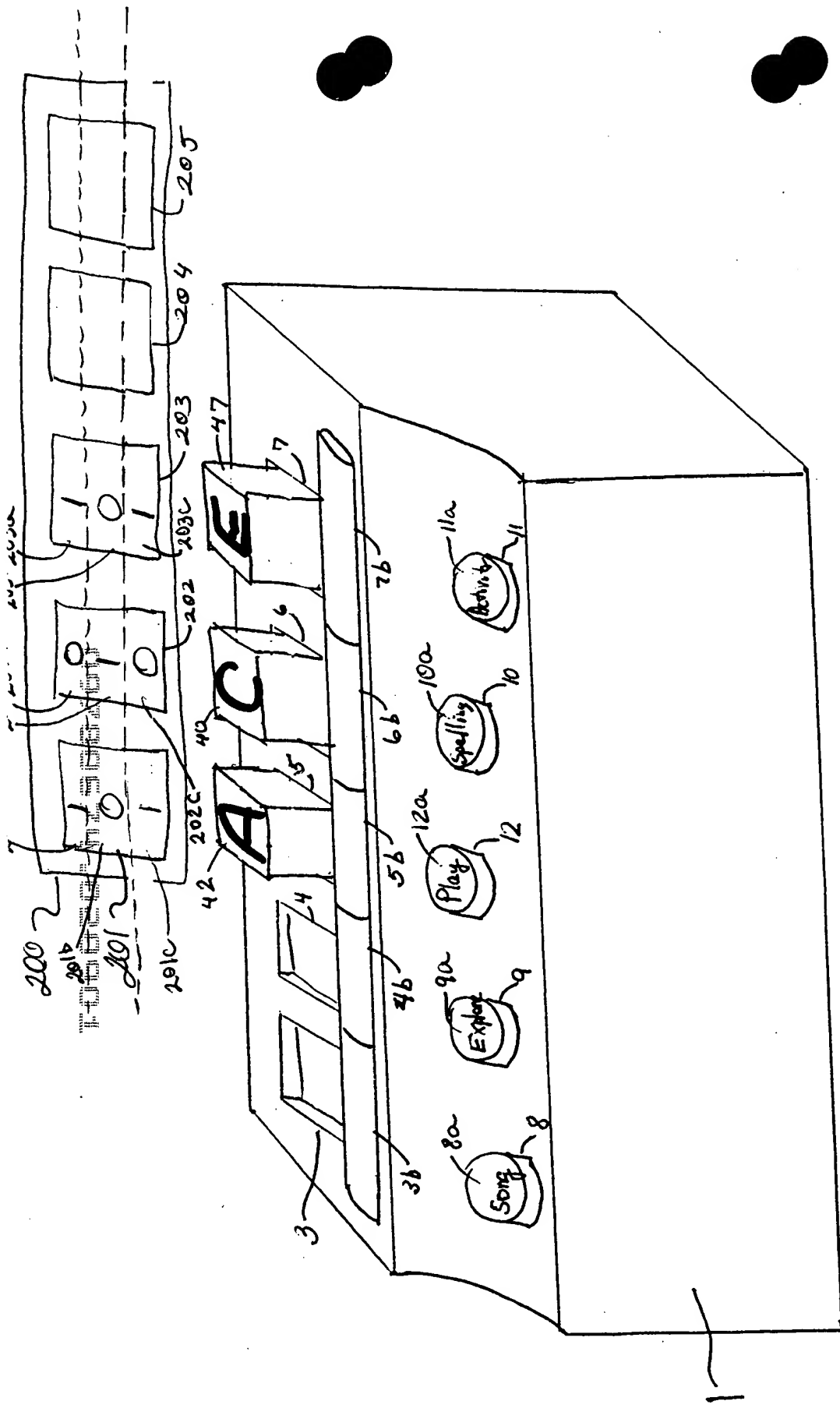


FIG. 9

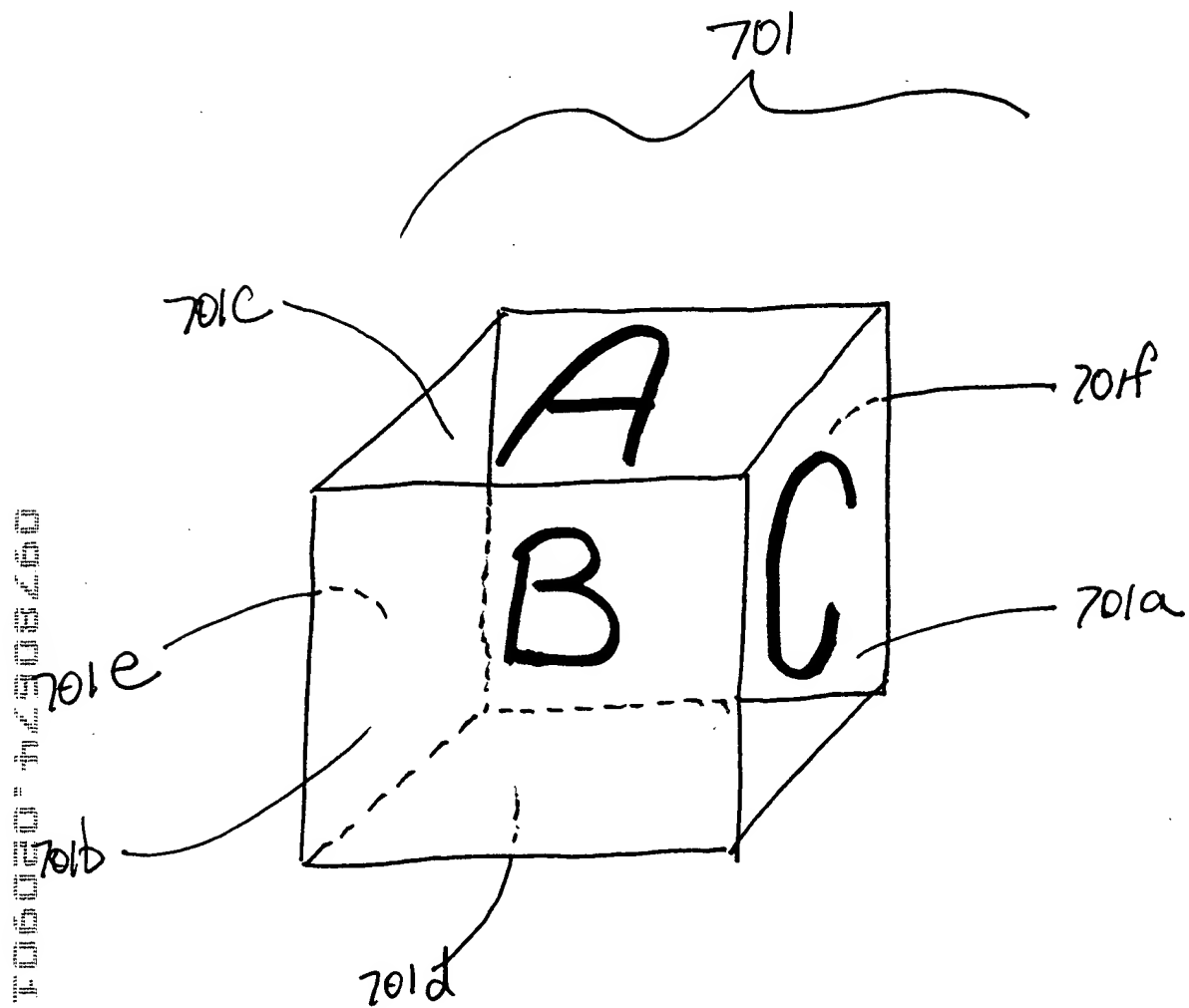


FIG. 10

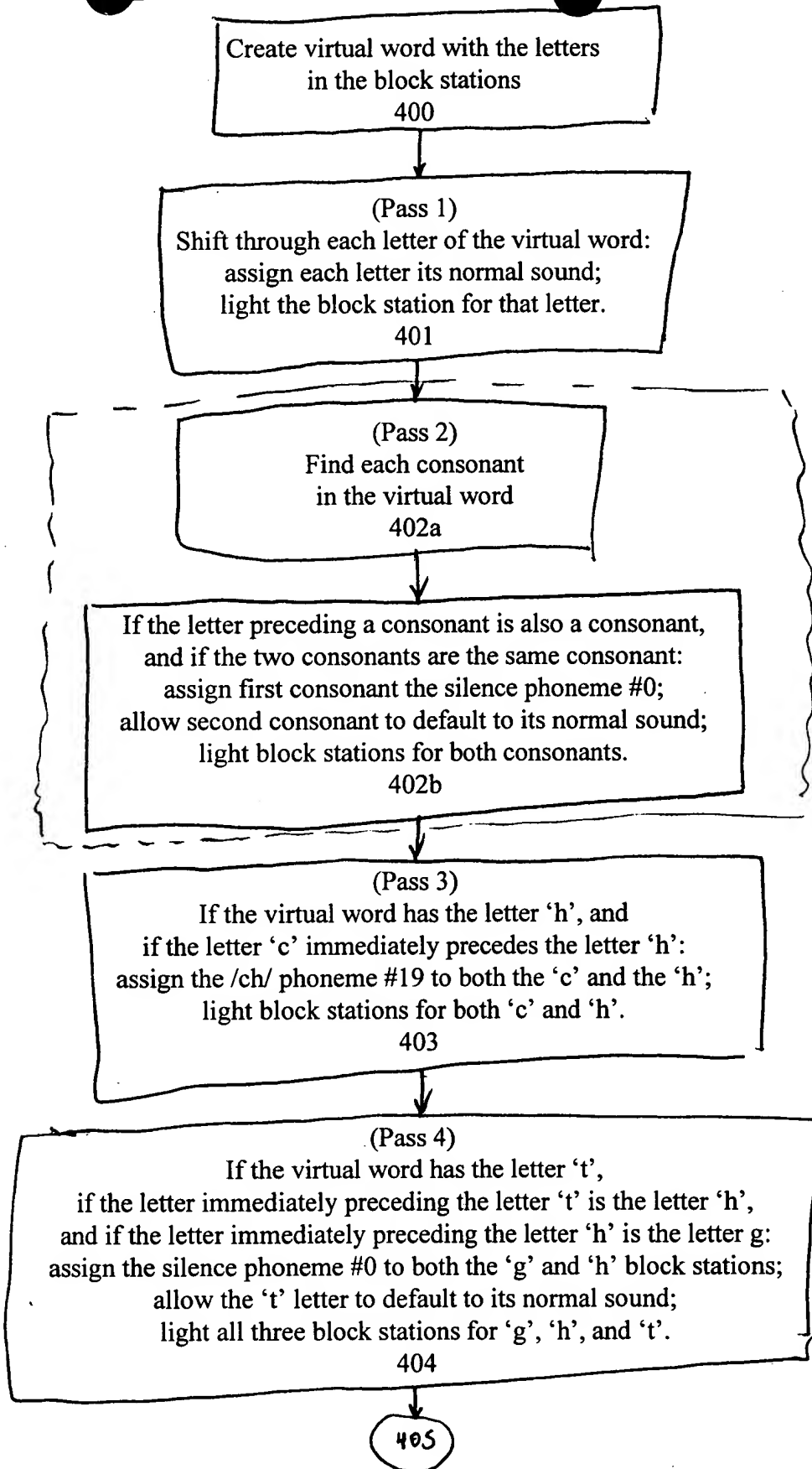


FIG. 11a

106020-4-0308260

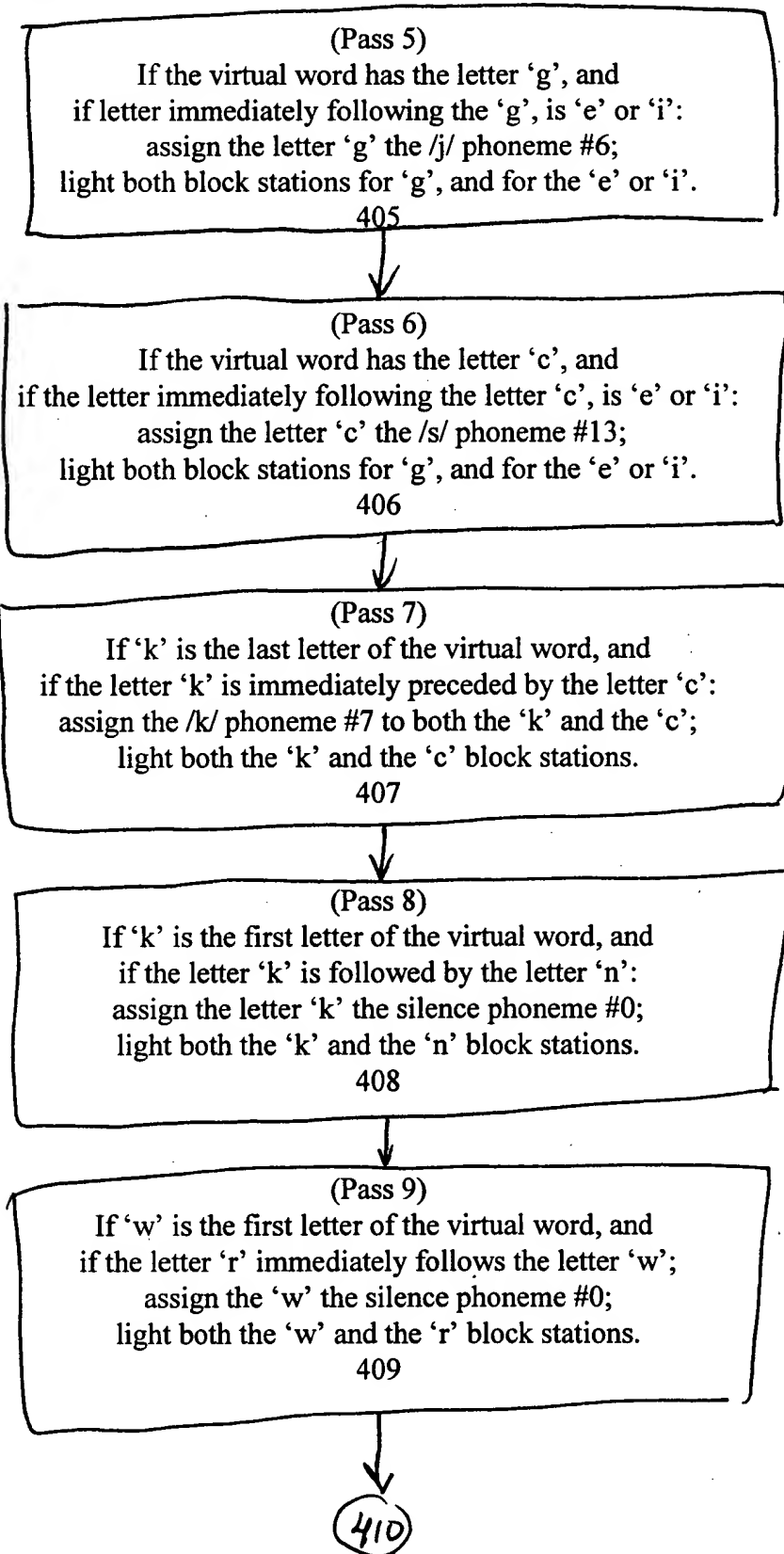


FIG. 11b

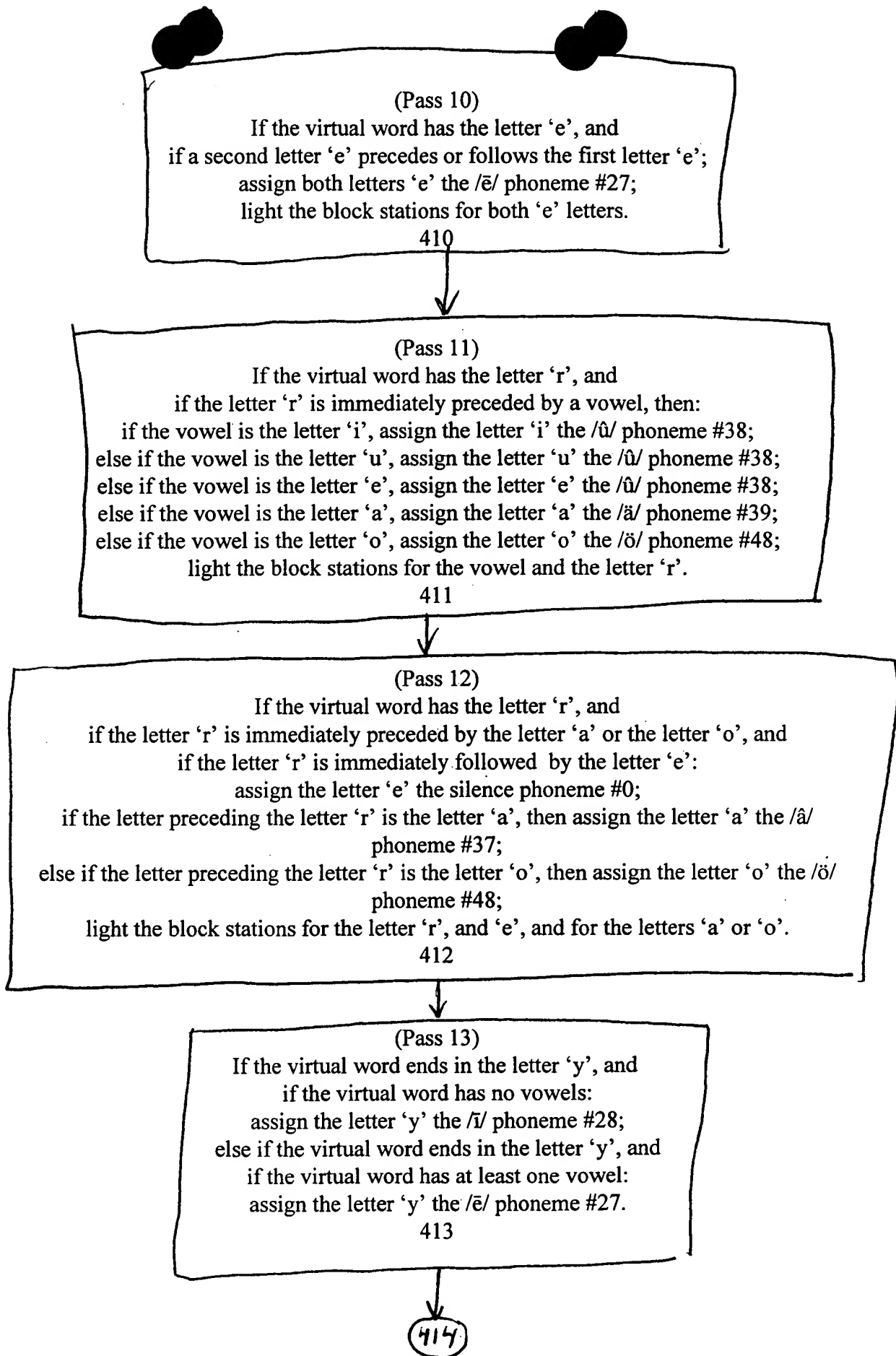


FIG. 11C

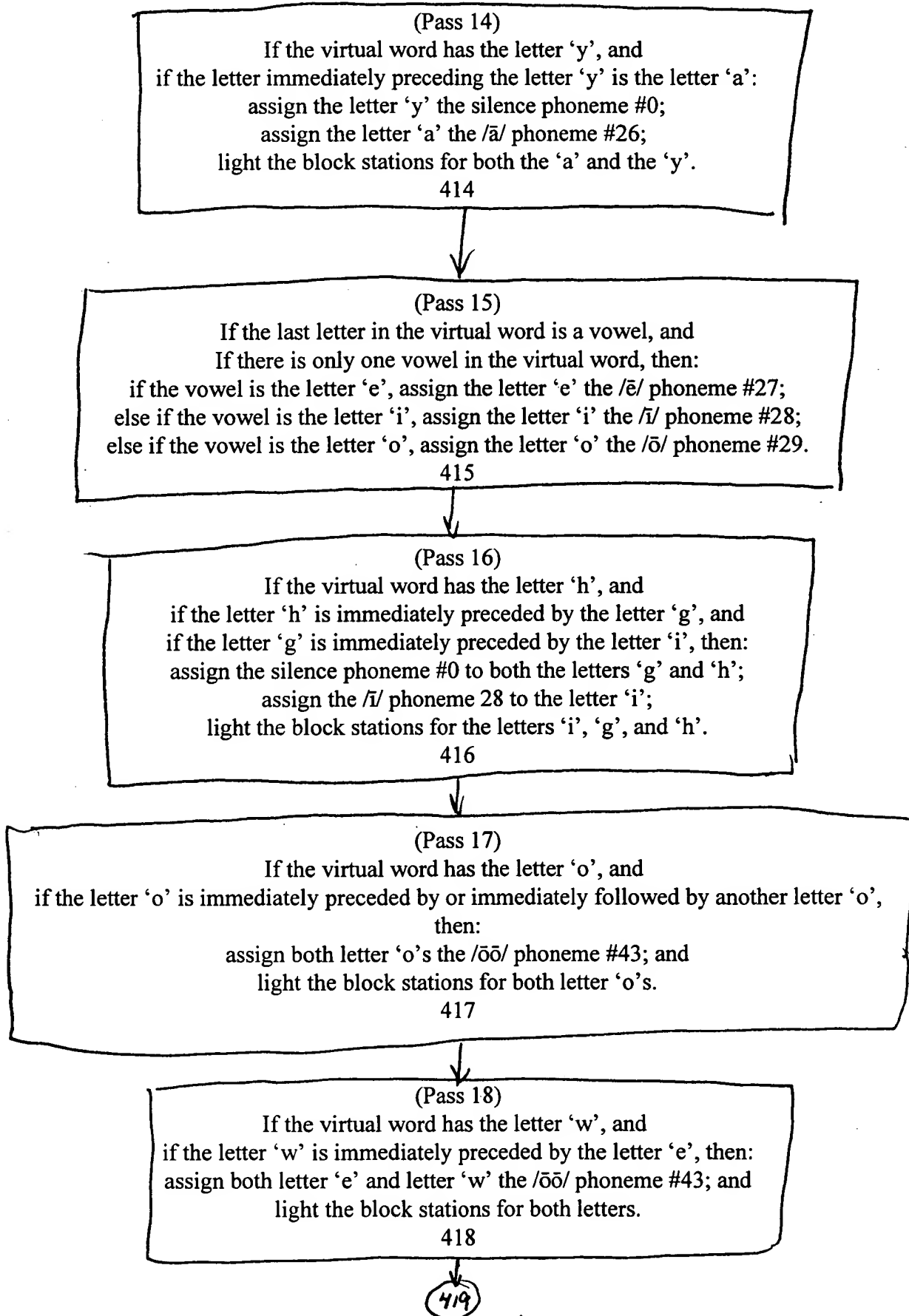


FIG. 11d

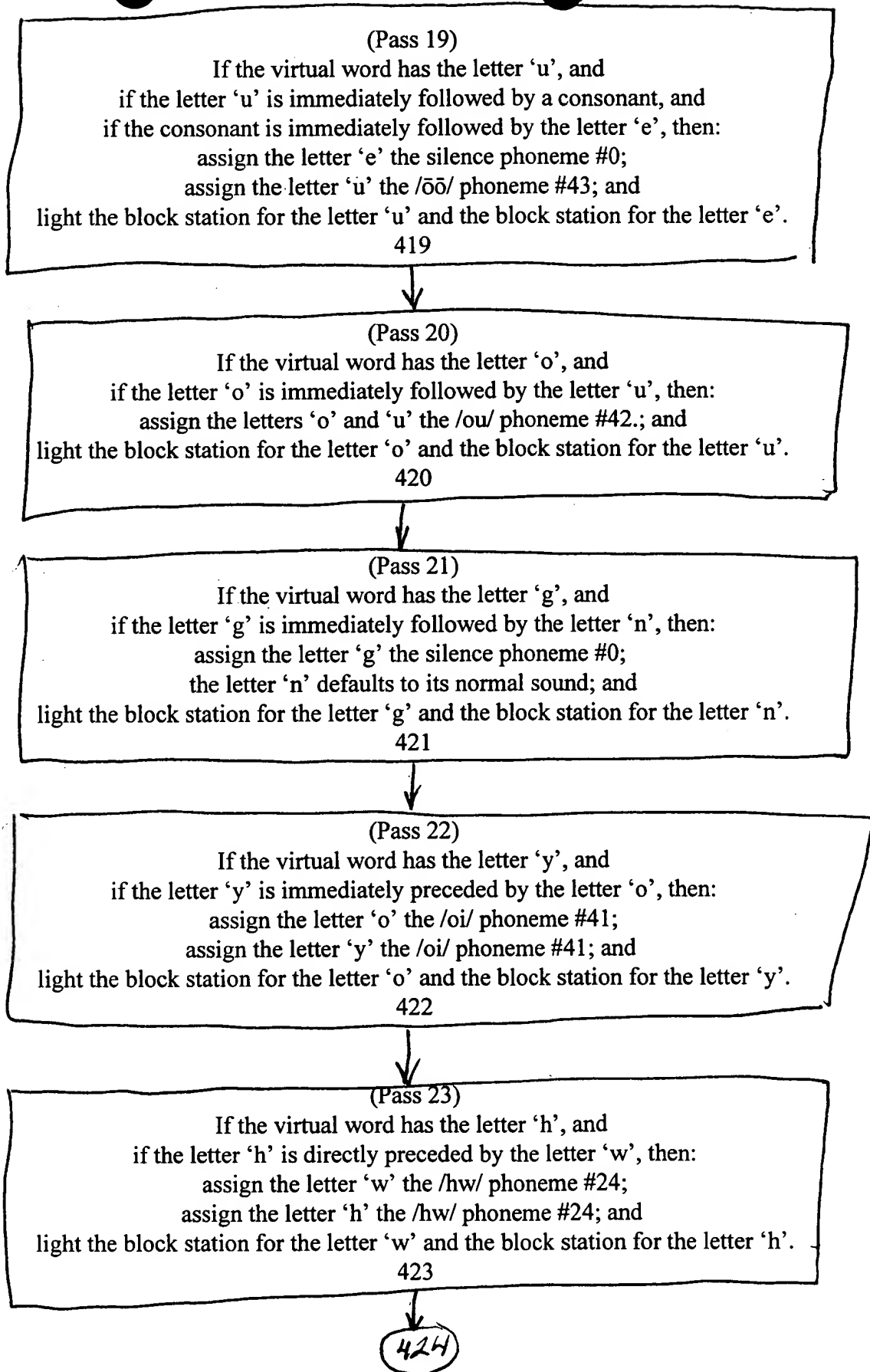


FIG. 11e

(Pass 24)

If the virtual word has two vowels, and
if the word ends in the letter 'e', and
if the letter that directly precedes the letter 'e' is a consonant, then:
assign the letter 'e' the silence phoneme #0;
if the letter directly preceding the consonant is the letter 'a', assign the letter 'a' the /ā/
phoneme #26;
else if the letter directly preceding the consonant is the letter 'e', assign the letter 'e' the
/ē/ phoneme #27;
else if the letter directly preceding the consonant is the letter 'i', assign the letter 'i' the /ī/
phoneme #28;
else if the letter directly preceding the consonant is the letter 'o', assign the letter 'o' the
/ō/ phoneme #29;
else if the letter directly preceding the consonant is the letter 'u', assign the letter 'u' the
/ū/ phoneme #43; and
light the block station for the letter 'e' and the block station for the vowel that directly
precedes the consonant.

424

(Pass 25)

If the virtual word has two vowels, and
if the word ends in the letters 'ed', and
if the letter that directly precedes the letter 'e' is a consonant, then:
assign the letter 'e' the silence phoneme #0;
if the letter directly preceding the consonant is the letter 'a', assign the letter 'a' the /ā/
phoneme #26;
else if the letter directly preceding the consonant is the letter 'e', assign the letter 'e' the
/ē/ phoneme #27;
else if the letter directly preceding the consonant is the letter 'i', assign the letter 'i' the /ī/
phoneme #28;
else if the letter directly preceding the consonant is the letter 'o', assign the letter 'o' the
/ō/ phoneme #29;
else if the letter directly preceding the consonant is the letter 'u', assign the letter 'u' the
/ū/ phoneme #43; and
light the block station for the letter 'e' and the block station for the vowel that directly
precedes the consonant.

425

426

(Pass 26)

If the virtual word has two vowels, and
if the word ends in the letters 'es', and
if the letter that directly precedes the letter 'e' is a consonant, then:
assign the letter 'e' the silence phoneme #0;
if the letter directly preceding the consonant is the letter 'a', assign the letter 'a' the /ā/
phoneme #26;
else if the letter directly preceding the consonant is the letter 'e', assign the letter 'e' the
/ē/ phoneme #27;
else if the letter directly preceding the consonant is the letter 'i', assign the letter 'i' the /ī/
phoneme #28;
else if the letter directly preceding the consonant is the letter 'o', assign the letter 'o' the
/ō/ phoneme #29;
else if the letter directly preceding the consonant is the letter 'u', assign the letter 'u' the
/ū/ phoneme #43; and
light the block station for the letter 'e' and the block station for the vowel that directly
precedes the consonant.

426



(Pass 27)

If the virtual word has two vowels, and
if the word ends in the letters 'er', and
if the letter that directly precedes the letter 'e' is a consonant, then:
assign the letter 'e' the /û/ phoneme #38;
if the letter directly preceding the consonant is the letter 'a', assign the letter 'a' the /ā/
phoneme #26;
else if the letter directly preceding the consonant is the letter 'e', assign the letter 'e' the
/ē/ phoneme #27;
else if the letter directly preceding the consonant is the letter 'i', assign the letter 'i' the /ī/
phoneme #28;
else if the letter directly preceding the consonant is the letter 'o', assign the letter 'o' the
/ō/ phoneme #29;
else if the letter directly preceding the consonant is the letter 'u', assign the letter 'u' the
/ū/ phoneme #43; and
light the block stations for the letters 'e' and 'r' and the block station for the vowel that
directly precedes the consonant.

427



428

FIG. 11g

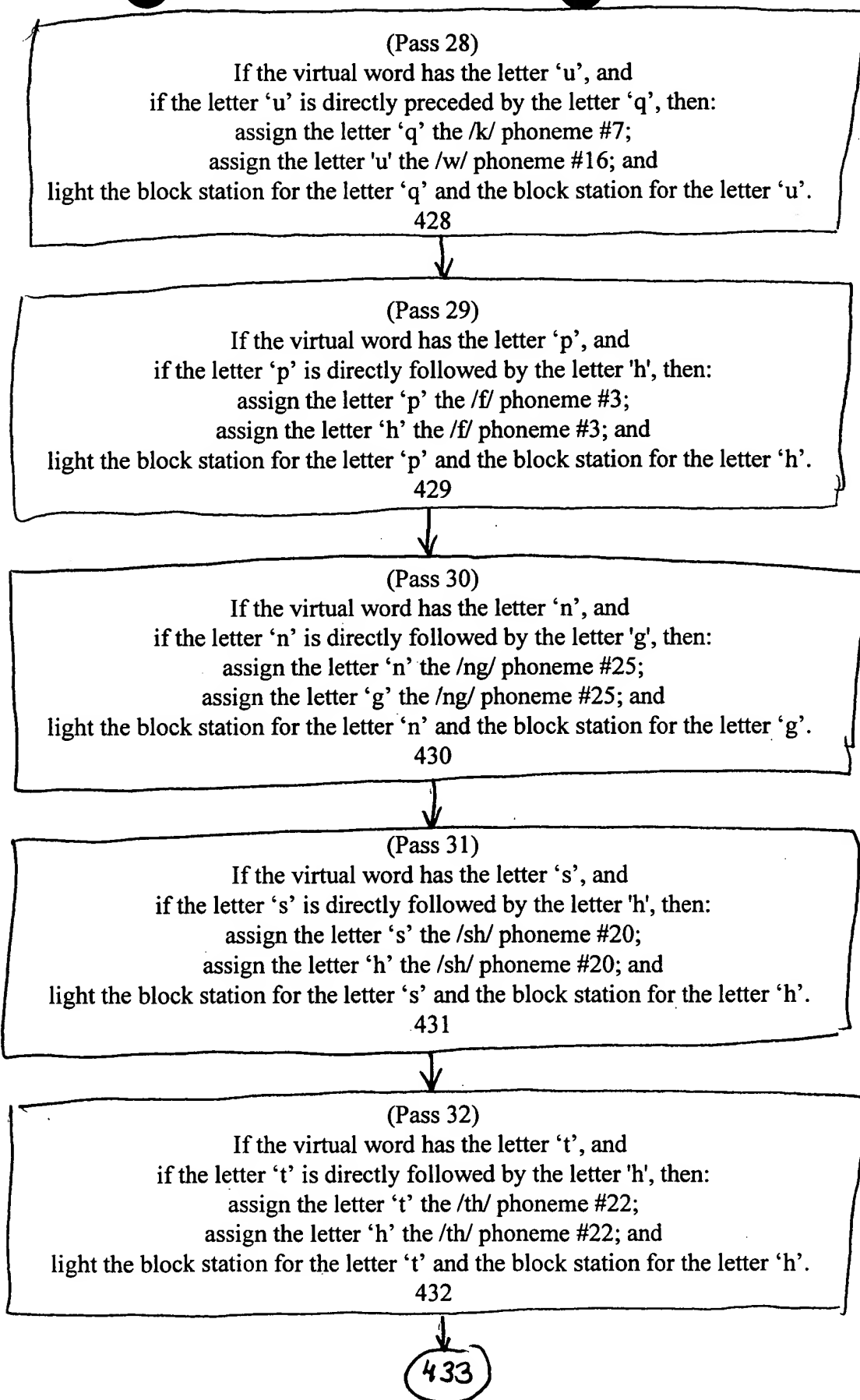


Fig. 11h

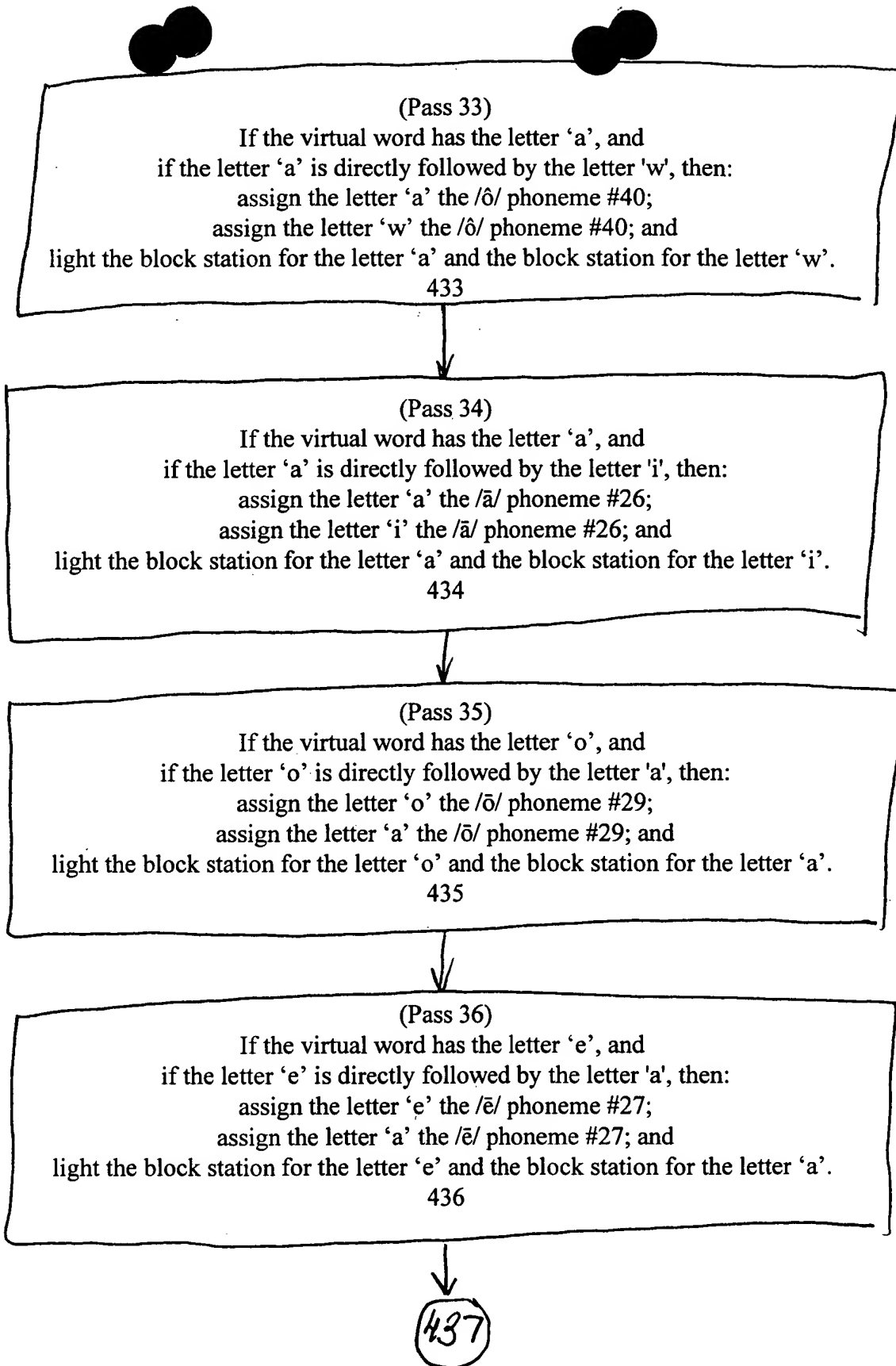


FIG. 11i

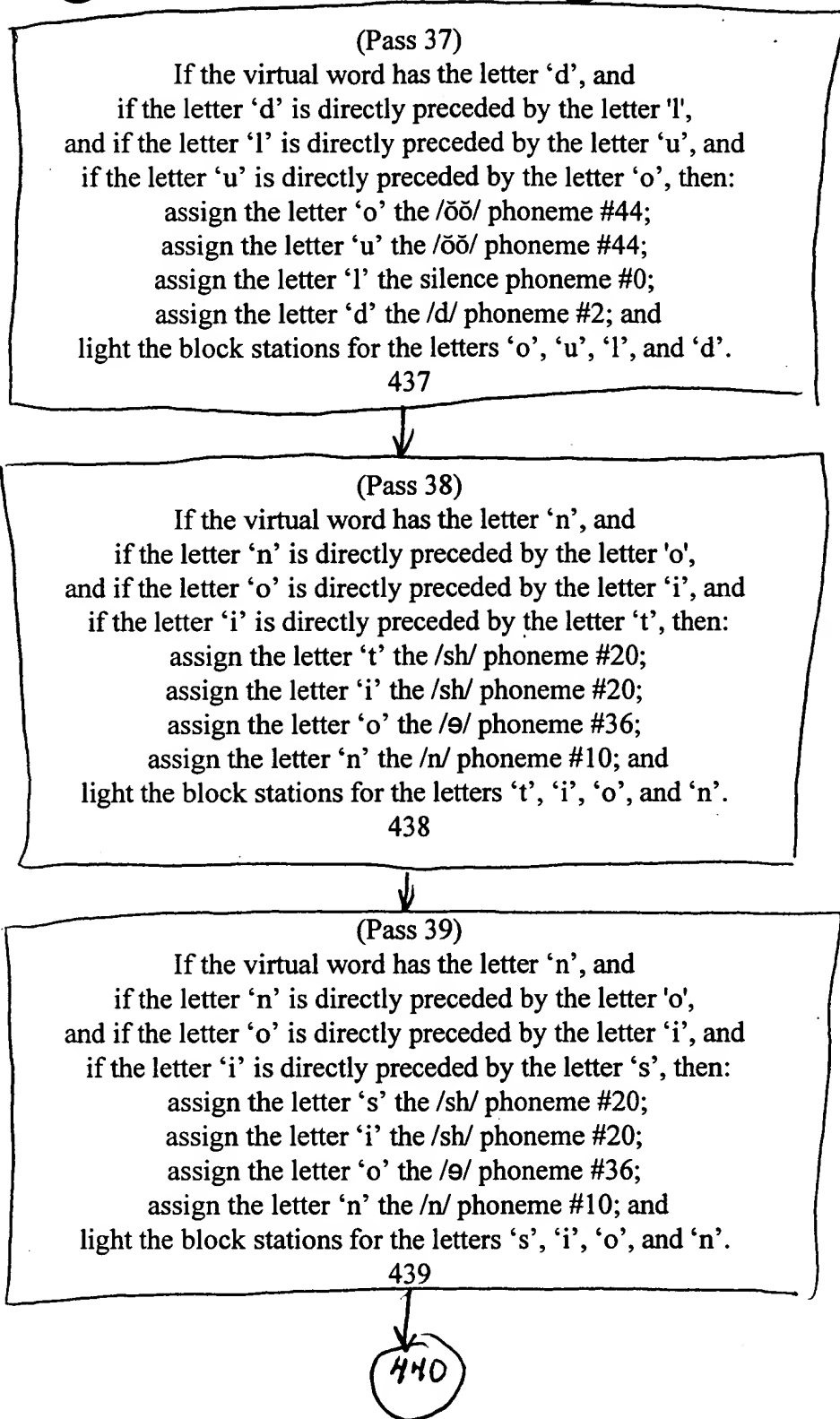


FIG. 11j

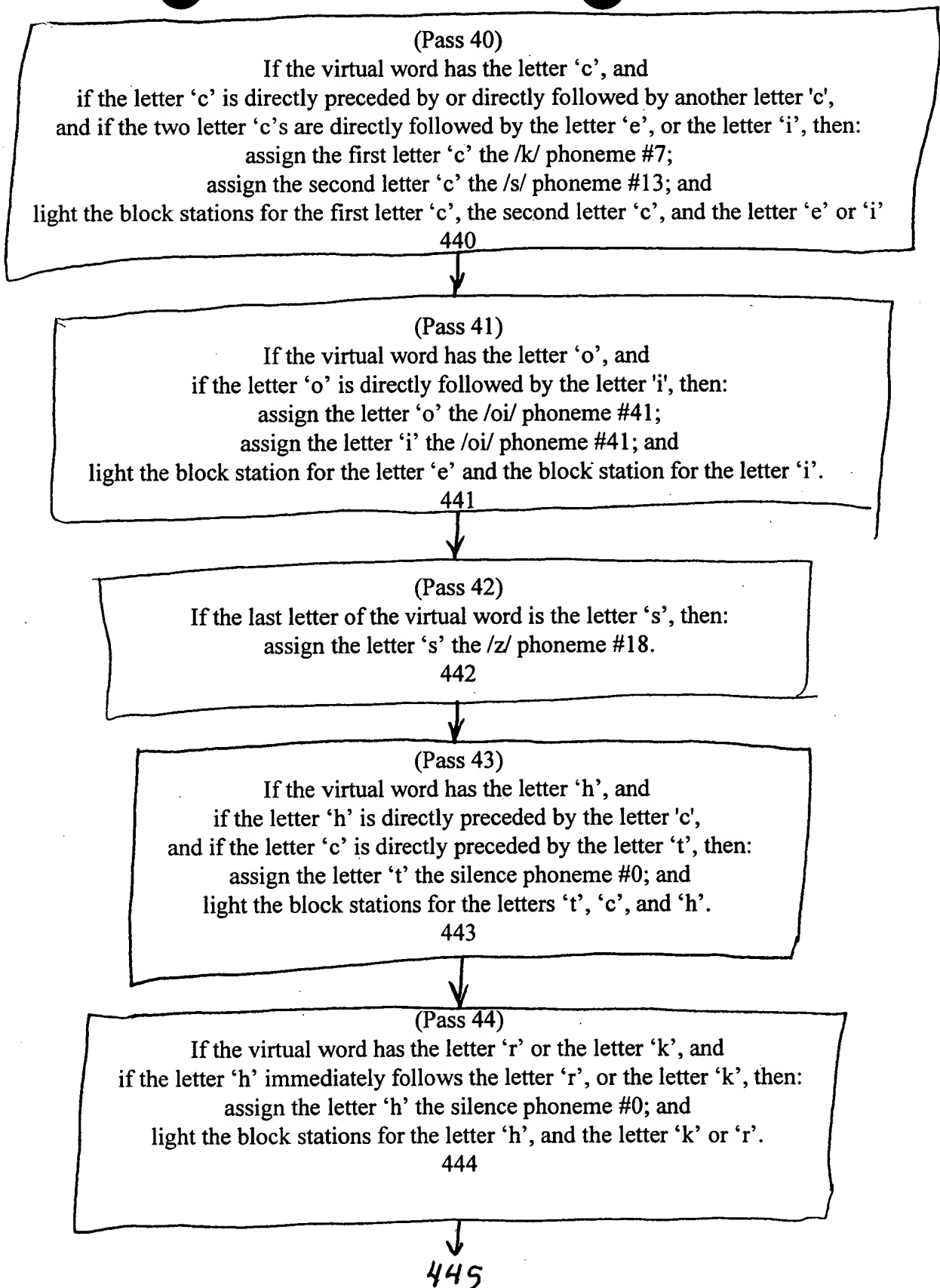


FIG. 11k

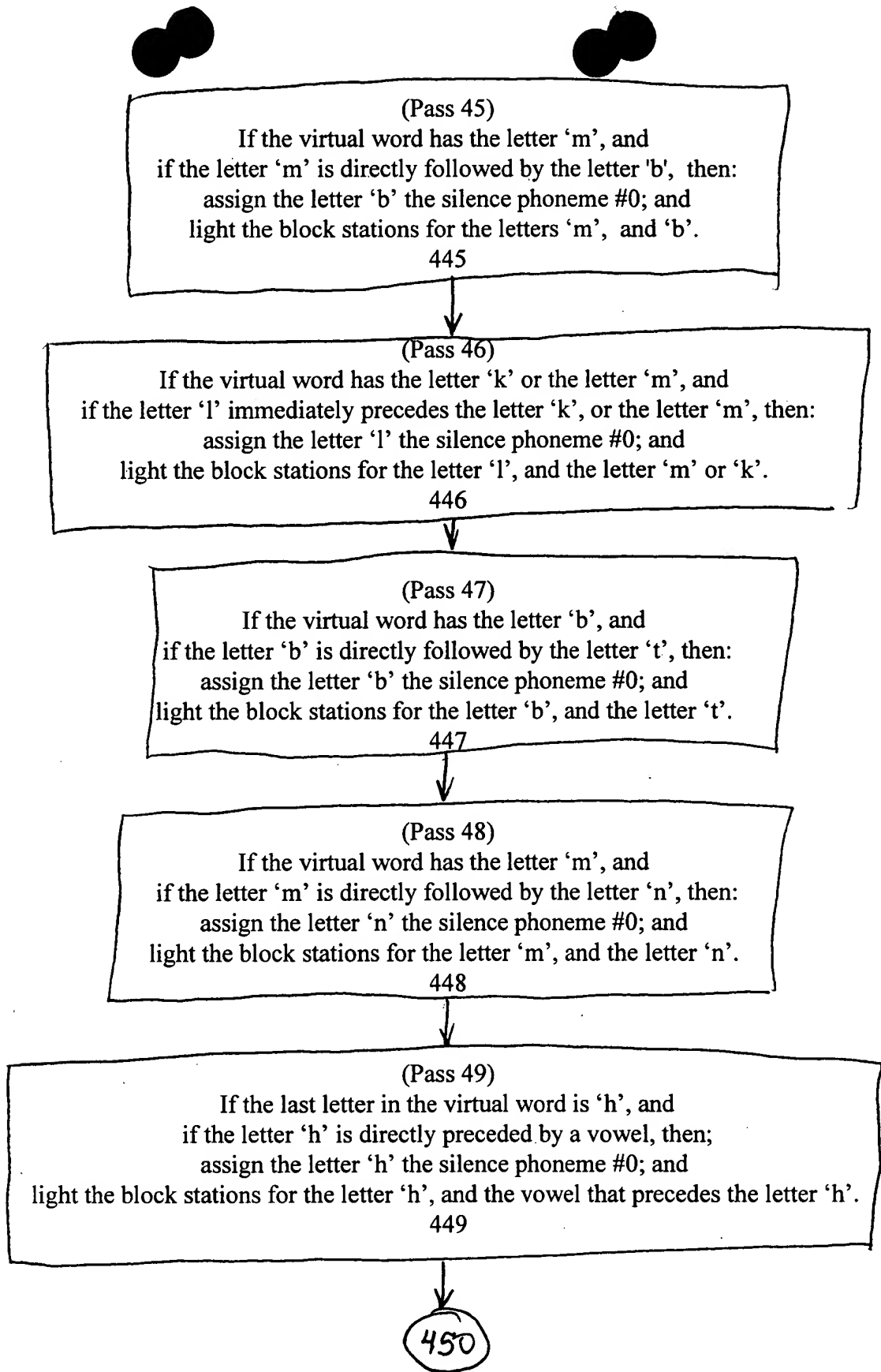


FIG. 11

(Pass 50)

If the first letter in the virtual word is 'w', and
if the letter directly following the letter 'w' is the letter 'h', and
if the letter directly following the letter 'h' is the letter 'o', then:
assign the letter 'w' the silence phoneme #0; and
light the block stations for the letters 'w', 'h', and 'o'.

450

(Pass 100)

If the virtual word has the letter 'd', and
if the letter 'd' is directly followed by the letter 'g'; or the letter 'j', then:
assign the letter 'd' the silence phoneme #0; and
light the block stations for the letter 'd', and the letter 'g' or 'j'.

451

(Pass 101)

If the last letter in the virtual word is 'm', and
if the letter 'm' is directly preceded by the letter 's', then;
assign the letter 's' the /z/ phoneme #18; and
light the block stations for the letter 's' and the letter 'm'.

452

Fig. 11m

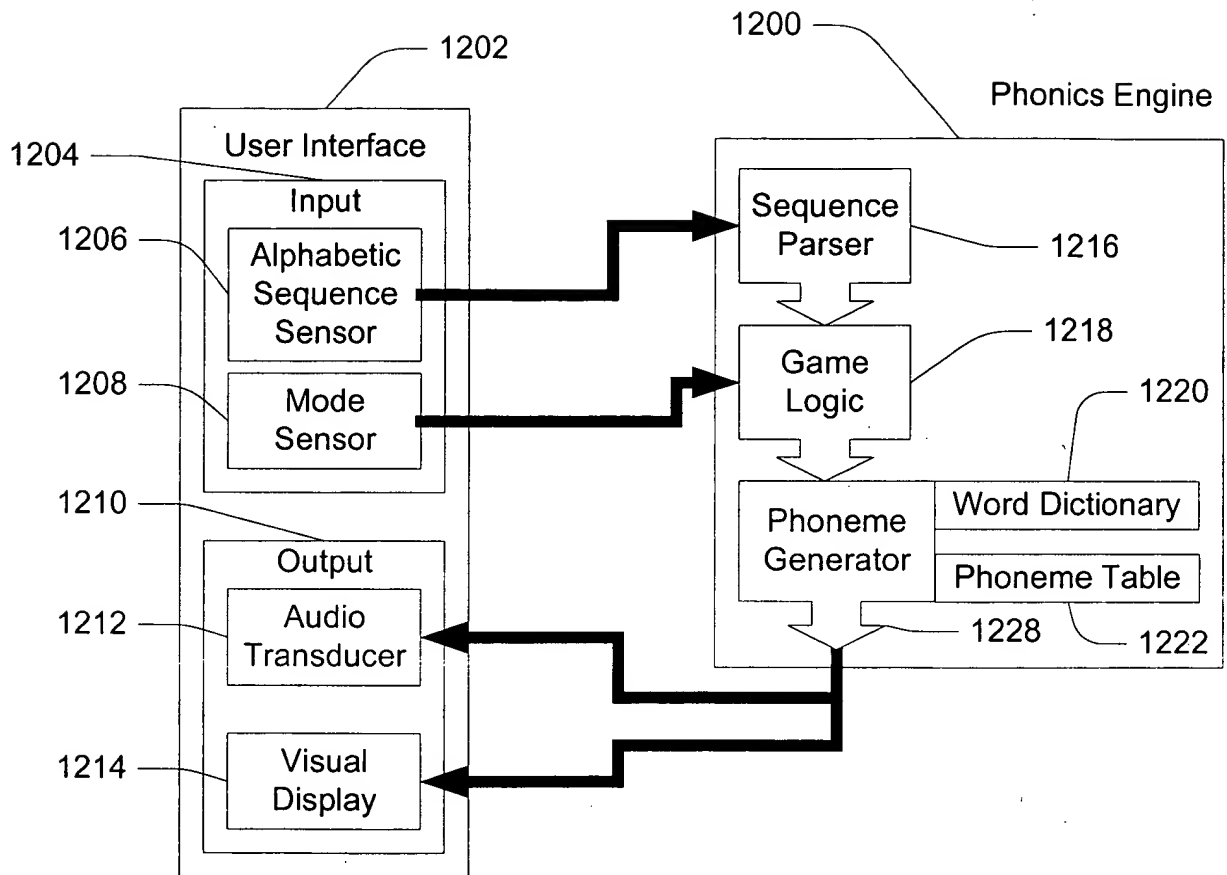


FIG. 12

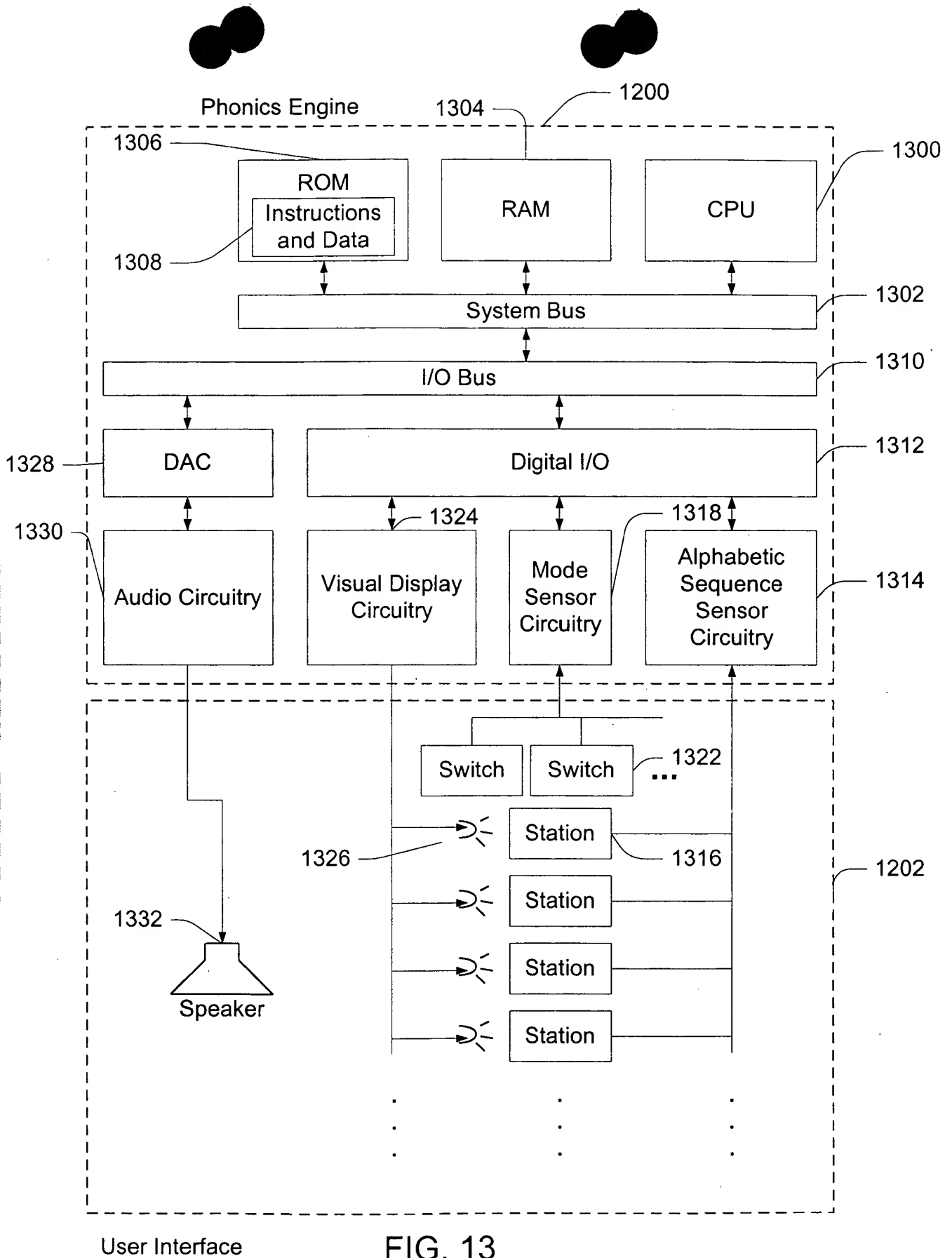


FIG. 13

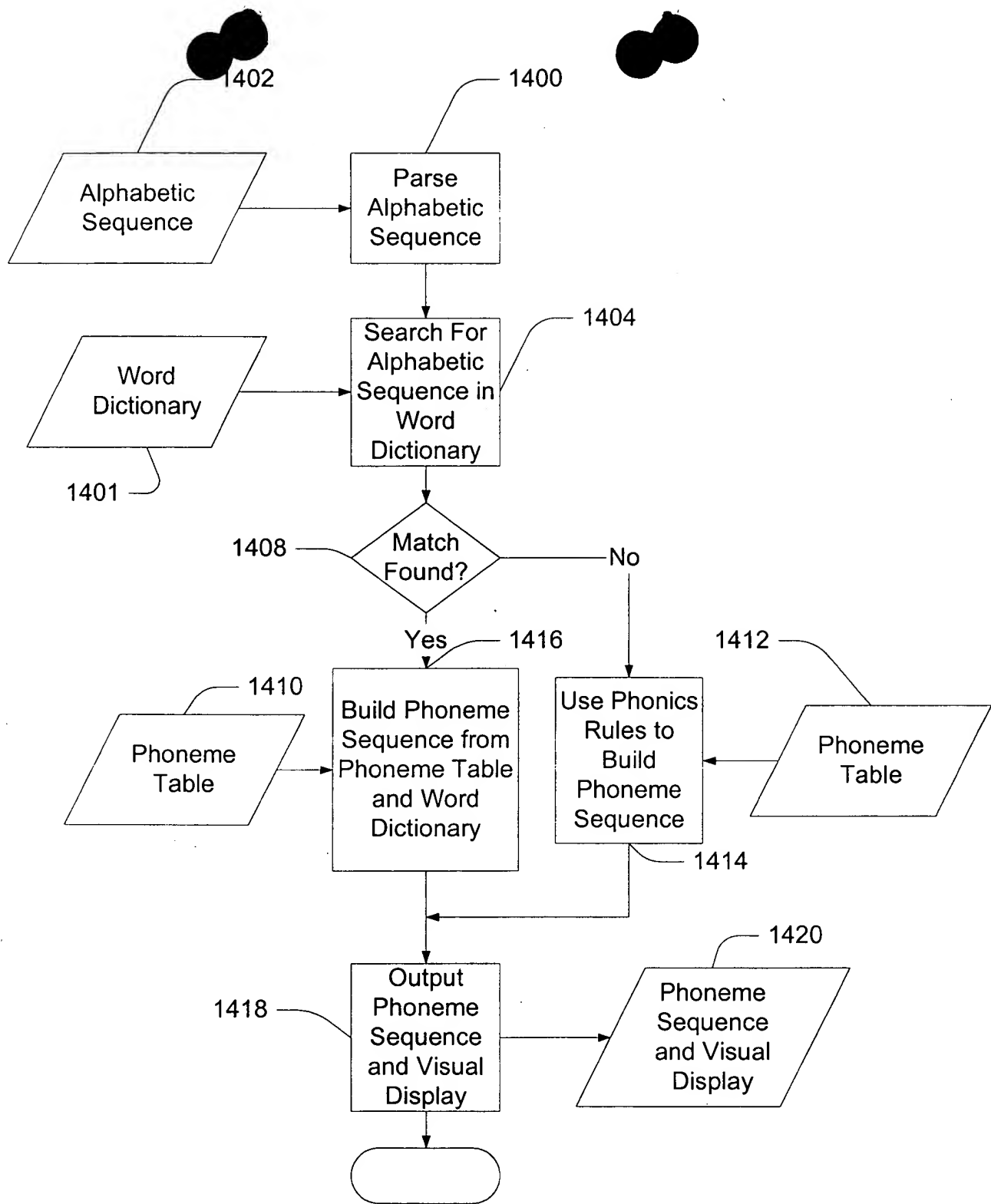


FIG. 14

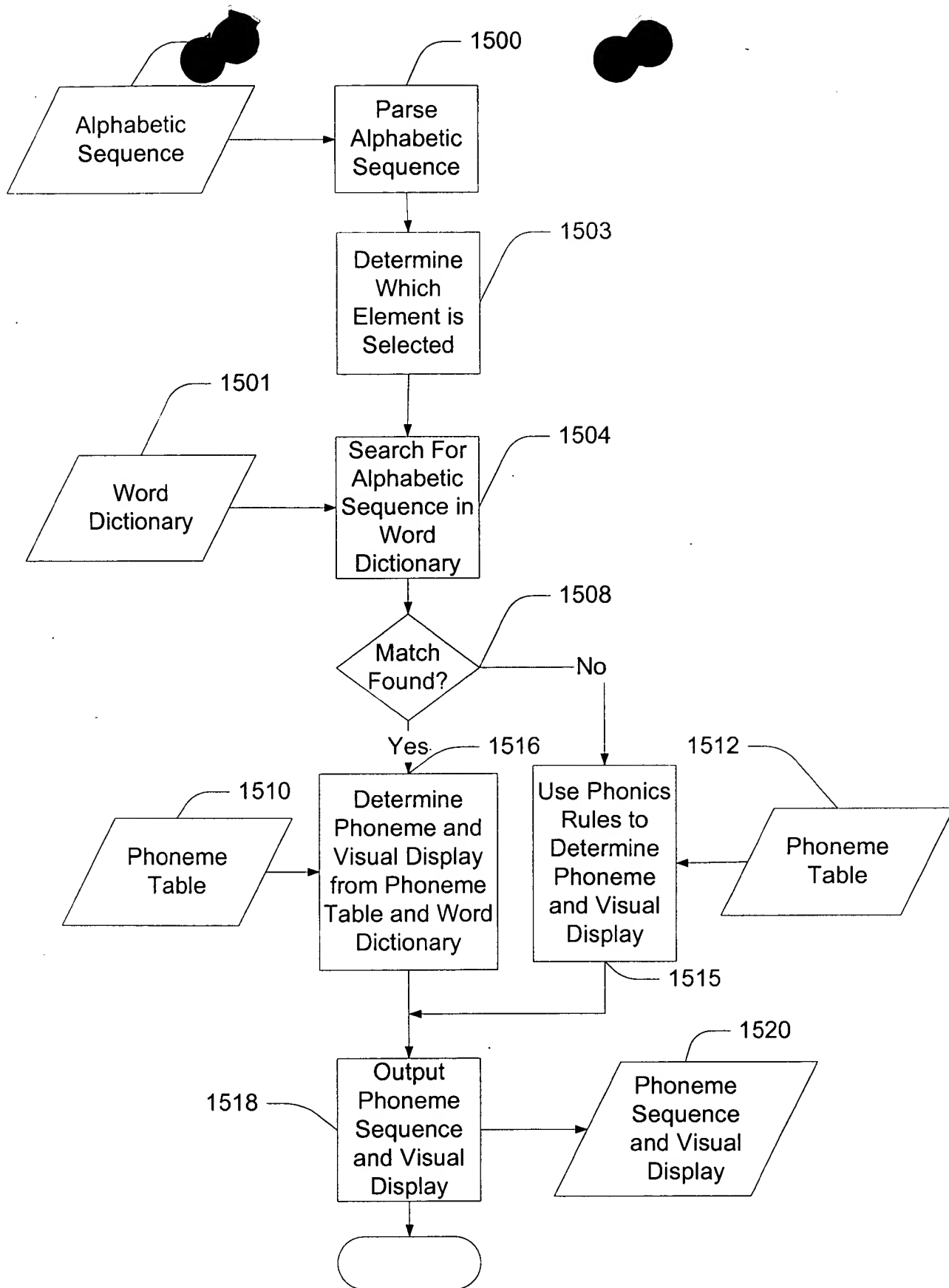


FIG. 15